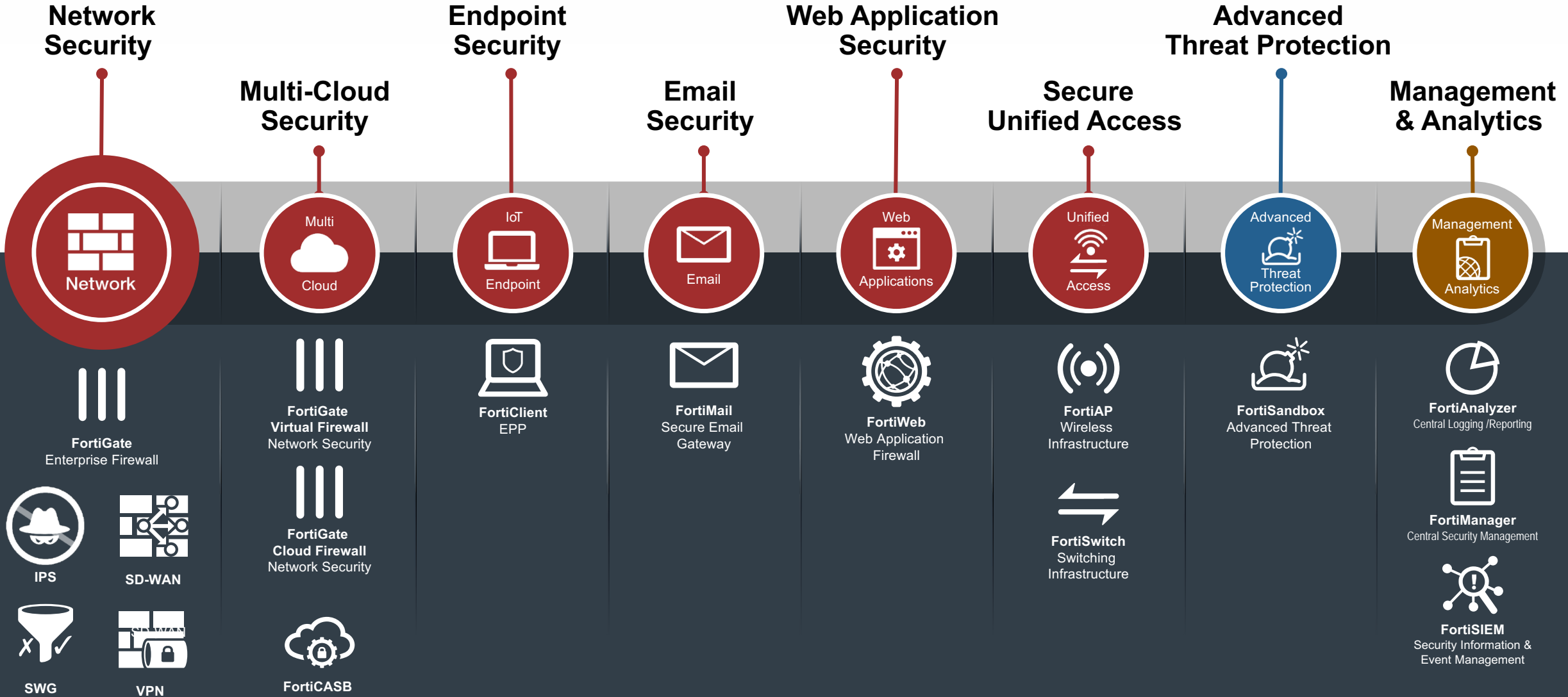


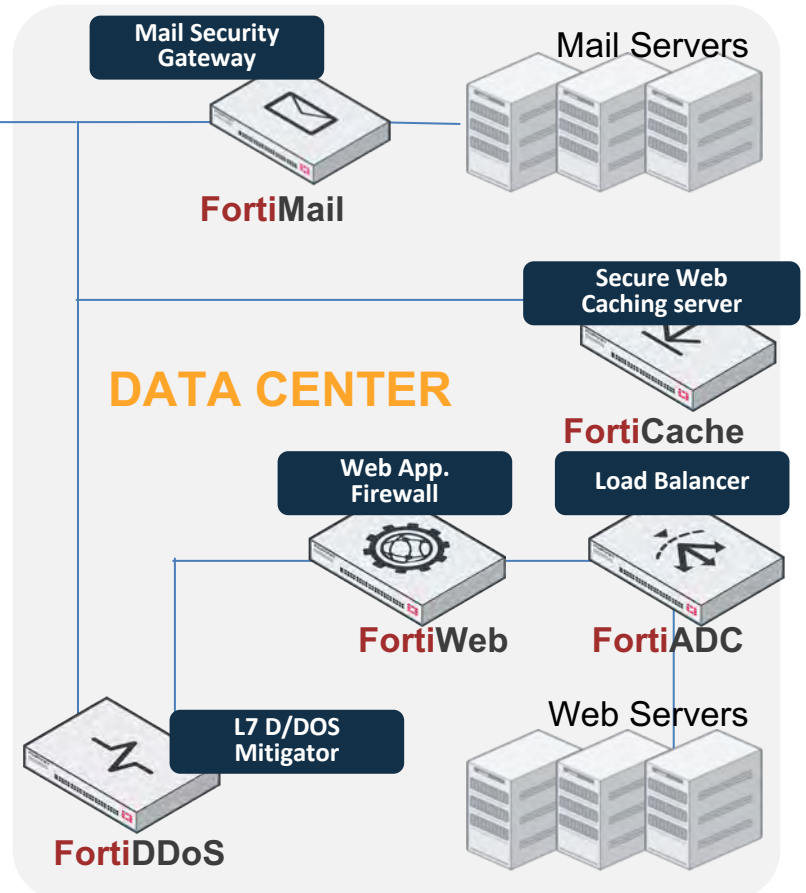
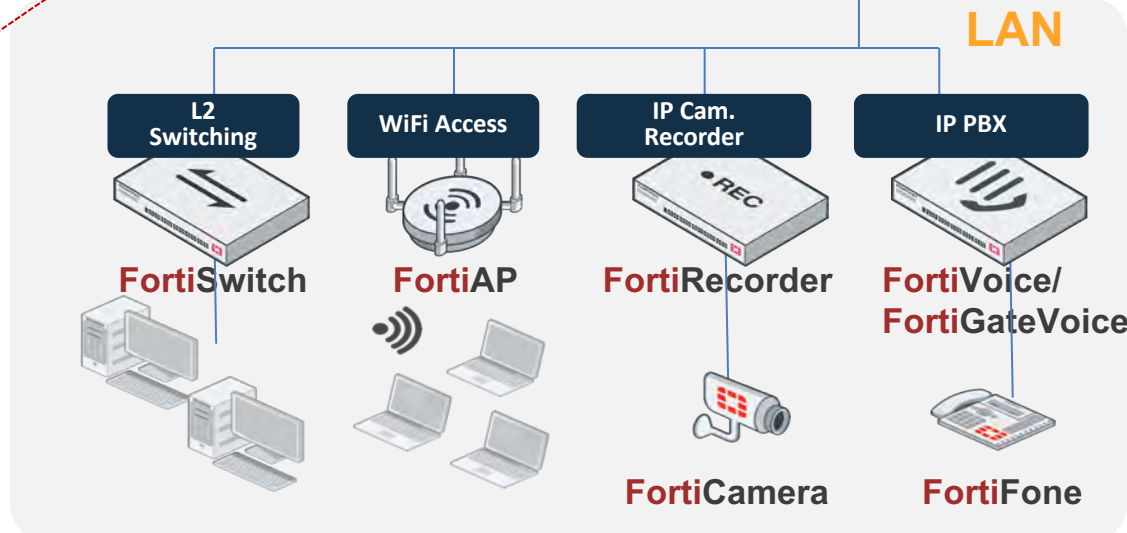
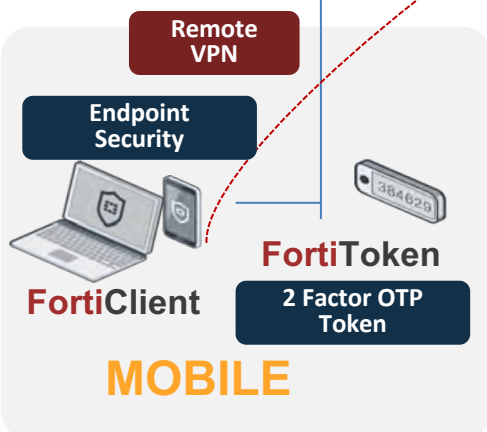
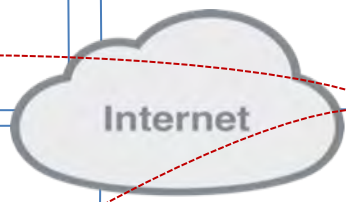
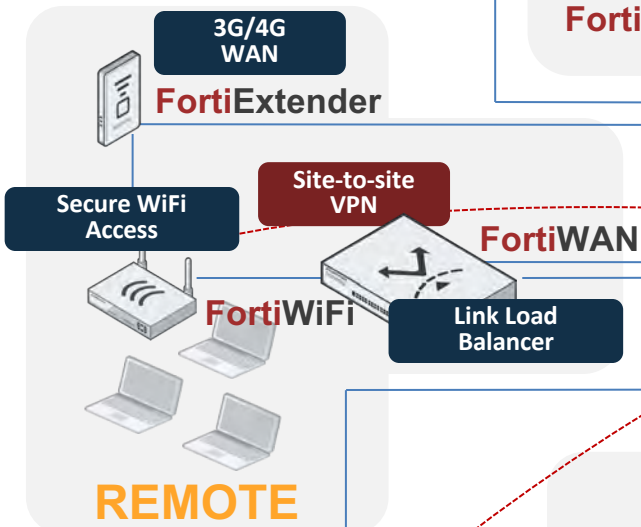
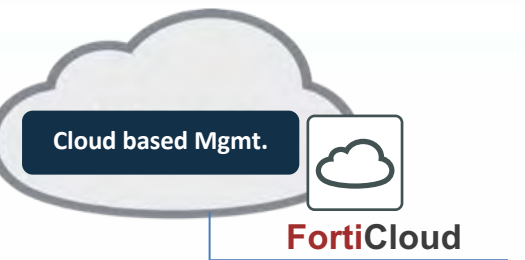
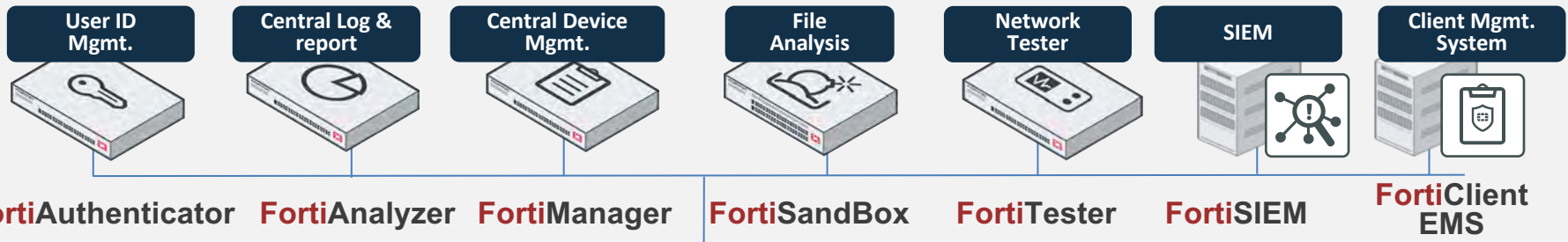
# Fortinet Product Quick Guide

March, 2018

# Complete Network Security Solution



# SECURITY/NETWORK OPERATING CENTER



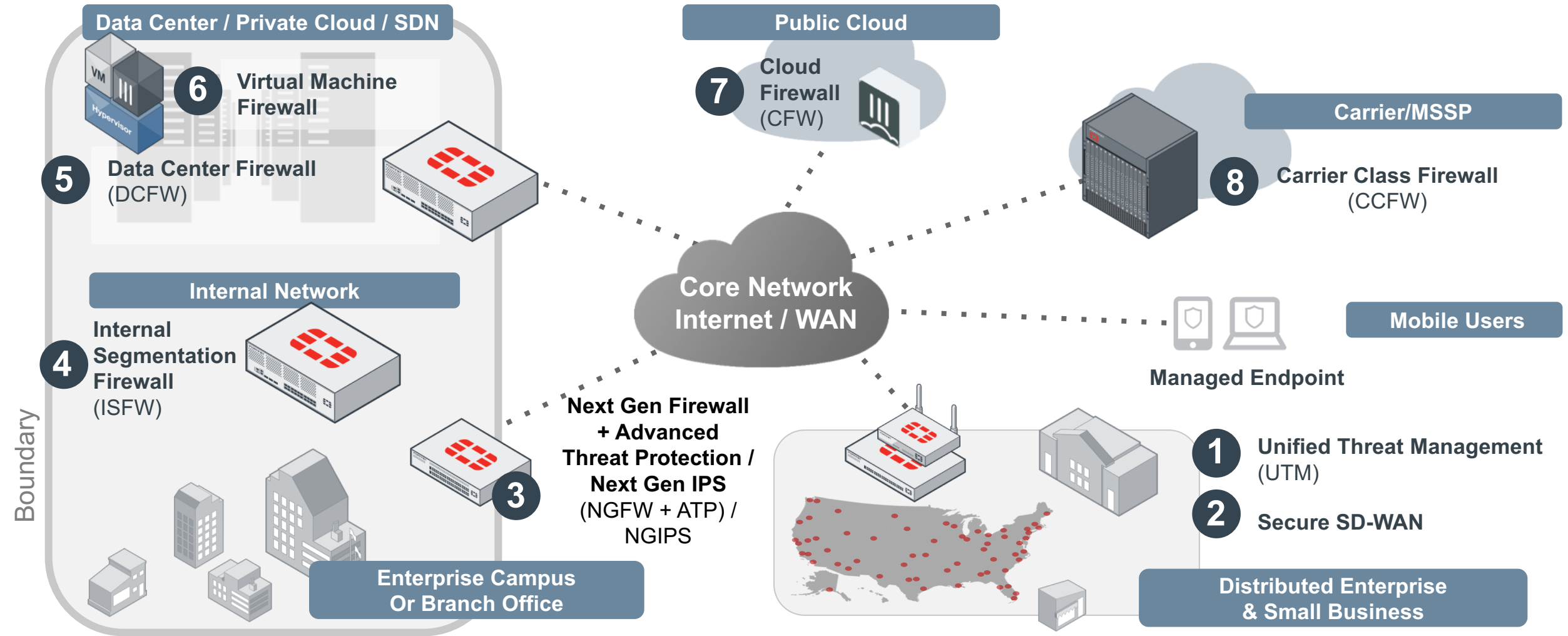
# Content

- FortiGate/FortiWiFi
- FortiAP
- FortiSwitch
- FortiClient
- FortiToken
- FortiAnalyzer
- FortiManager
- FortiAuthenticator
- FortiDDoS
- FortiMail
- FortiWeb
- FortiSandbox
- FortiADC
- FortiWAN
- FortiCache
- FortiSIEM
- FortiCASB
- FortiRecorder & FortiCamera
- FortiTester

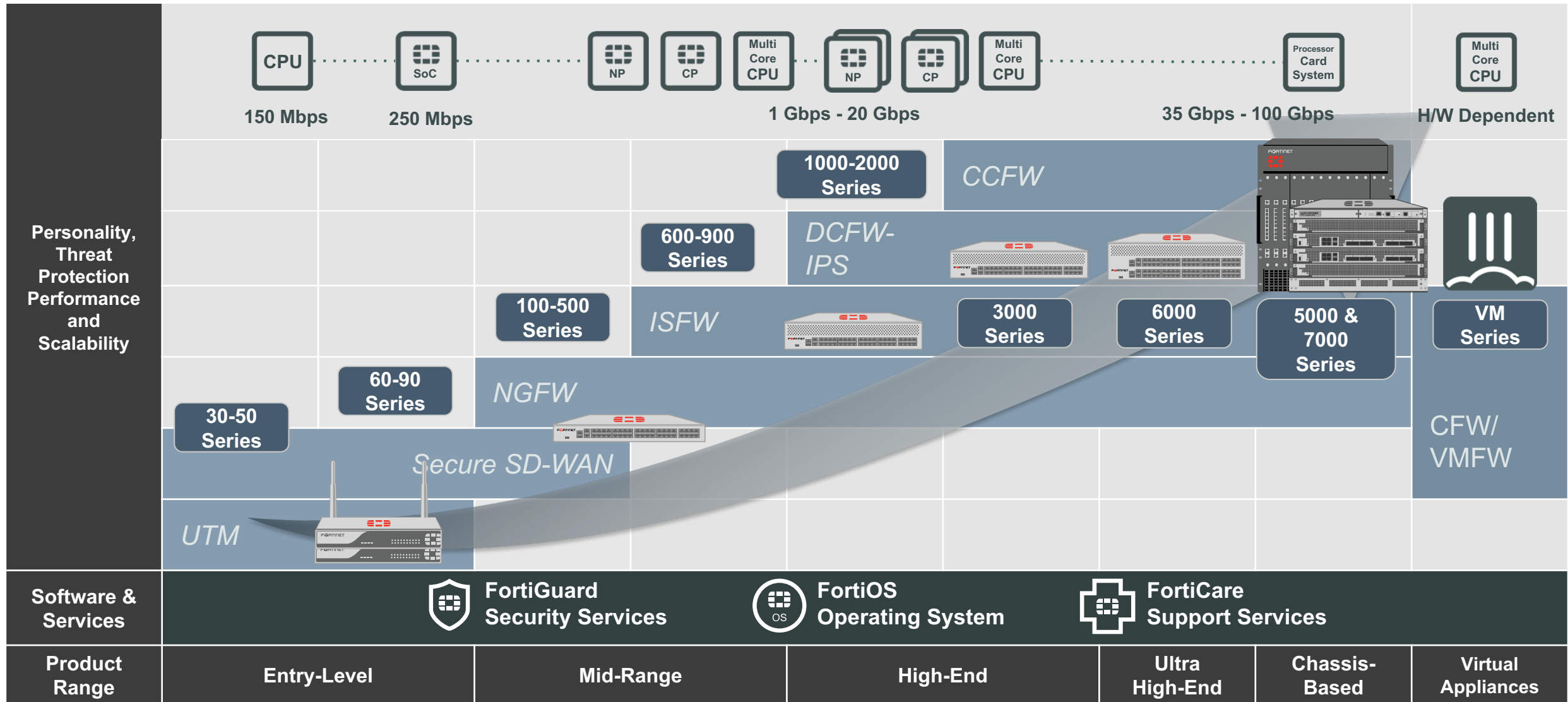


# FortiGate/FortiWiFi

# FortiGate Deployments



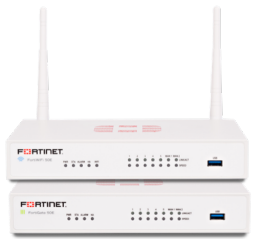
# FortiGate Product Range



# FortiGate Entry Level Series - Overview



Feature-rich Security Appliances For Small/Home Offices & Small Branch Offices



 **FG/FWF-30E/50E Series**



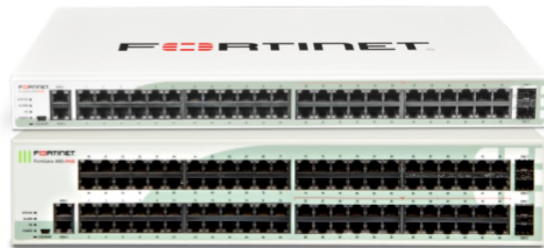
 **FG/FWF-60E Series**



 **FG/FWF-70 & 90D Series**



 **FG-80E Series**



 **FG-94 & 98D-POE**



**950 Mbps – 4 Gbps**

Firewall throughput



**41 Mbps – 450 Mbps**

IPS Throughput



**23 Mbps - 360 Mbps**

NGFW Throughput



**20 Mbps - 250 Mbps**

Threat Protection Throughput



**GE RJ45 | GE RJ45 PoE/+ | GE SFP**

Variants: WiFi | In-built 3G4G | In-built DSL | Ruggedized



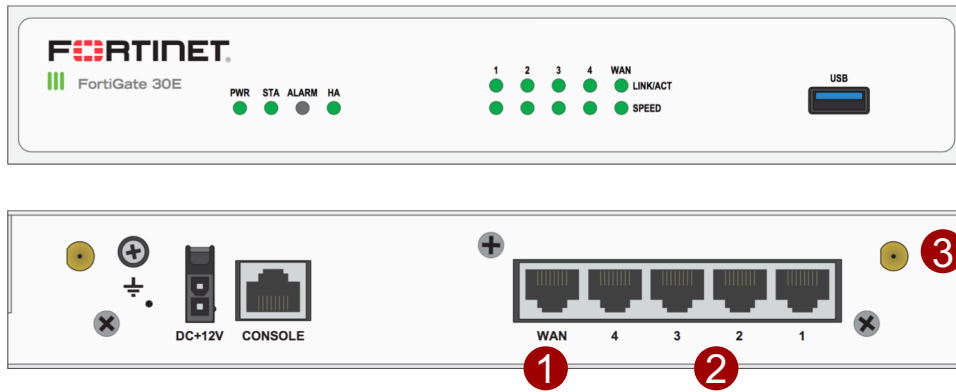
# FortiGate Entry Level Series: Comparison

	FG-30E	FG-50E	FG-60D	FG-60E	FG80D	FG-80E	FG-70D/90D	FG-90E
<b>Firewall (1518/512/64 byte UDP)</b>	950 Mbps	2.5 Gbps	1.5 /1.5 /1.5 Gbps	3 / 3 / 3 Gbps	1.3 Gbps	4 /4 /4 Gbps	3.5 /3.5 /3.5 Gbps	4 Gbps
<b>Concurrent Sessions</b>	900,000	1.8 Mil	500,000	1.3 Mil	1.5 Mil	1.3 Mil	2 Mil	1.2 Mil
<b>New Sessions/Sec</b>	15,000	21,000	4,000	30,000	22, 000	30,000	4,000	27,500
<b>IPSec VPN</b>	75 Mbps	90 Mbps	1 Gbps	2 Gbps	200 Mbps	2.5 Gbps	1 Gbps	245 Mbps
<b>IPS (Ent. Mix)</b>	300 Mbps	350 Mbps	50 Mbps	400 Mbps	245 Mbps	450 Mbps	50 Mbps	470 Mbps
<b>NGFW (Ent. Mix)</b>	200 Mbps	220 Mbps	23 Mbps	250 Mbps	210 Mbps	360 Mbps	25 Mbps	375 Mbps
<b>Threat Protection (Ent. Mix)</b>	150Mbps	160 Mbps	20 Mbps	180 Mbps	190 Mbps	250 Mbps	22.5 Mbps	270 Mbps
<b>Interfaces</b>	5 x GE RJ45	7 x GE RJ45	10 x GE RJ45	10 x GE RJ45	4x GE RJ45	14 x GE RJ45 2x Shared Media Pairs	16 x GE RJ45	16 x GE RJ45
<b>Storage</b>	-	32 GB (51E) 2x GB (52E)	-	128 GB (61E)	16 GB	128 GB (81E)	32GB (90D)	128 GB (91E)
<b>Variants</b>	WiFi	WiFi	WiFi, PoE	WiFi, PoE	-	PoE	WiFi, PoE, high port density	-

# FortiGate Entry Level Series: Comparison

	FWF30E	FWF50E	FWF50E-2R	FWF60D	FWF60/61E	FWF90D/92D
<b>Thick AP</b>						
<b>Wireless Controller</b>						
<b>#of WiFi radios</b>	1	1	1x 2.4 Ghz 1x 5 Ghz	1	1	1
<b>Supported Std</b>	a/b/g/n	a/b/g/n	a/b/g/n/ac	a/b/g/n	a/b/g/n/ac	a/b/g/n
<b>802.11n</b>	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO
<b>Max wireless association rate total</b>	300 Mbps	300 Mbps	300m + 867 Mbps	300 Mbps	867 Mbps	300 Mbps
<b>SSID's (incl. reserved)</b>	8	8	8	8	8	8
<b>Max AP (Total/ Tunnel)</b>	2 / 2	10 / 5	10 / 5	10 / 5	10 / 5	32 / 16

# FortiGate/FortiWiFi 30E



- ① 1 x GE RJ45 WAN Port
- ② 4 x GE RJ45 Ports
- ③ WiFi Variant: 802.11a/b/g/n



**950 Mbps**

Firewall throughput



**300 Mbps**

IPS Throughput

**0.9 Million**

Concurrent Sessions



**200 Mbps**

NGFW Throughput

**15,000**

New Sessions/Sec



**150 Mbps**

Threat Protection Throughput



**Small Business / Remote Office**

UTM / DEFW



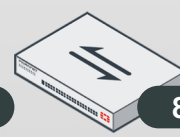
200



20

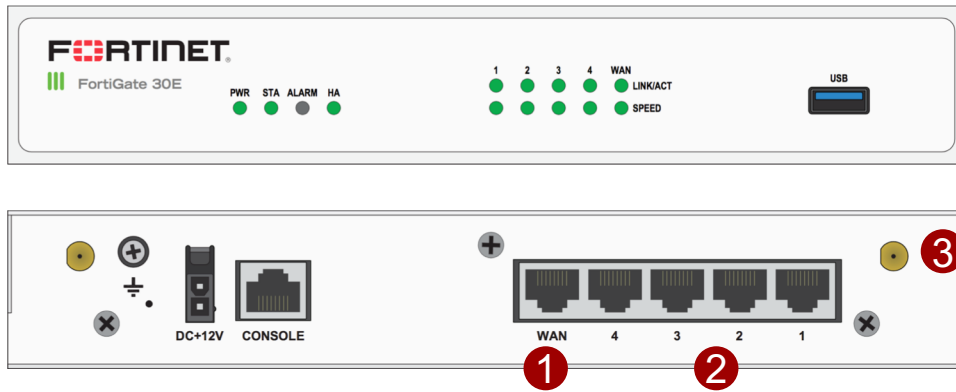


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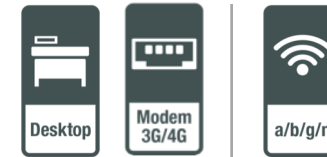


8

# FortiGate/FortiWiFi 30E-3G4G



- ① 1 x GE RJ45 WAN Port
- ② 4 x GE RJ45 Ports
- ③ WiFi Variant: 802.11a/b/g/n



**950 Mbps**

Firewall throughput



**300 Mbps**

IPS Throughput



**Small Business / Remote Office**

UTM / DEFW

**0.9 Million**

Concurrent Sessions



**200 Mbps**

NGFW Throughput

**15,000**

New Sessions/Sec



**150 Mbps**

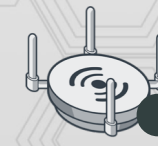
Threat Protection Throughput



200



20

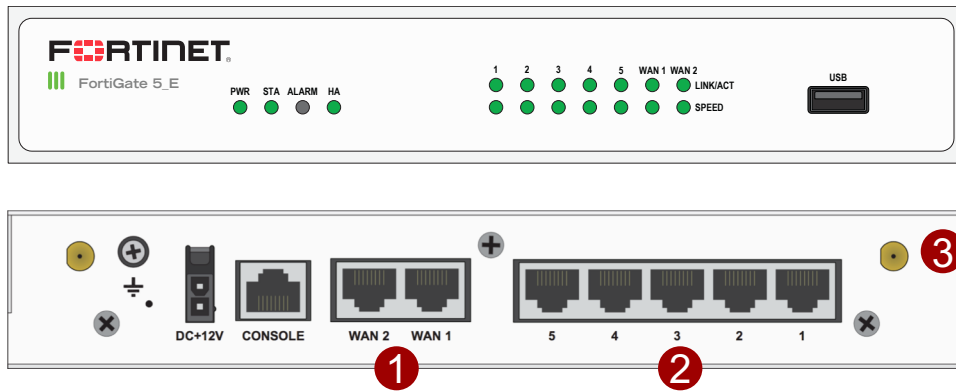


2



8

# FortiGate/FortiWiFi 50E/-2R



- ① 2 x GE RJ45 WAN Ports
- ② 5 x GE RJ45 Ports
- ③ WiFi Variant: 802.11a/b/g/n and dual radio, 802.11a/b/g/n/ac



**2.5 Gbps**

Firewall throughput



**350 Mbps**

IPS Throughput

**1.8 Million**

Concurrent Sessions



**220 Mbps**

NGFW Throughput

**21,000**

New Sessions/Sec



**160 Mbps**

Threat Protection Throughput



**Small Business / Remote Office**

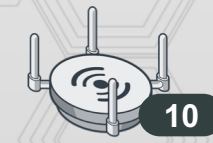
UTM / DEFW



200



100

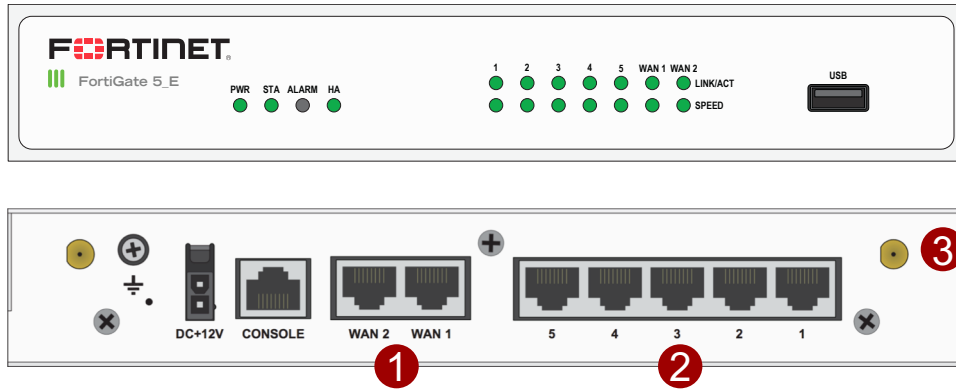


10



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# FortiGate/FortiWiFi 51E



- ① 2 x GE RJ45 WAN Ports
- ② 5 x GE RJ45 Ports
- ③ WiFi Variant: 802.11a/b/g/n



**2.5 Gbps**

Firewall throughput



**350 Mbps**

IPS Throughput

**1.8 Million**

Concurrent Sessions



**220 Mbps**

NGFW Throughput

**21,000**

New Sessions/Sec



**160 Mbps**

Threat Protection Throughput



**Small Business / Remote Office**

UTM / DEFW



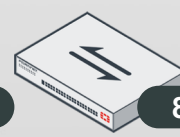
200



100

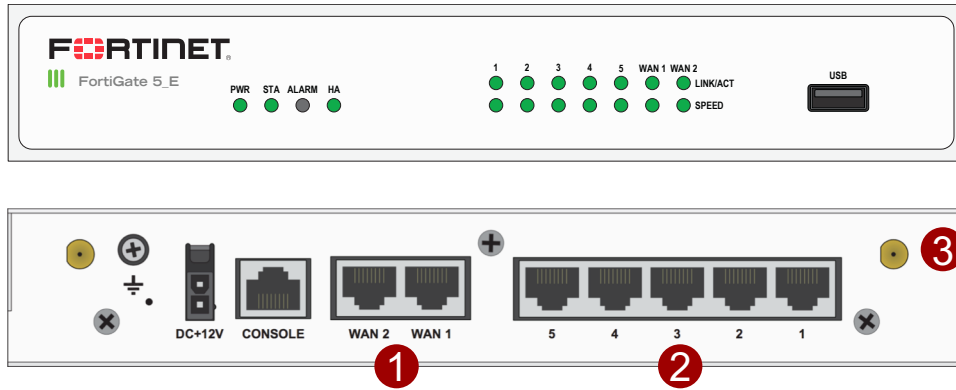


10



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# FortiGate 52E



- ① 2 x GE RJ45 WAN Ports
- ② 5 x GE RJ45 Ports



**2.5 Gbps**  
Firewall throughput



**350 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.8 Million**  
Concurrent Sessions

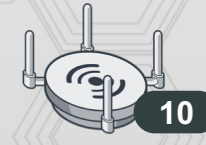


**220 Mbps**  
NGFW Throughput

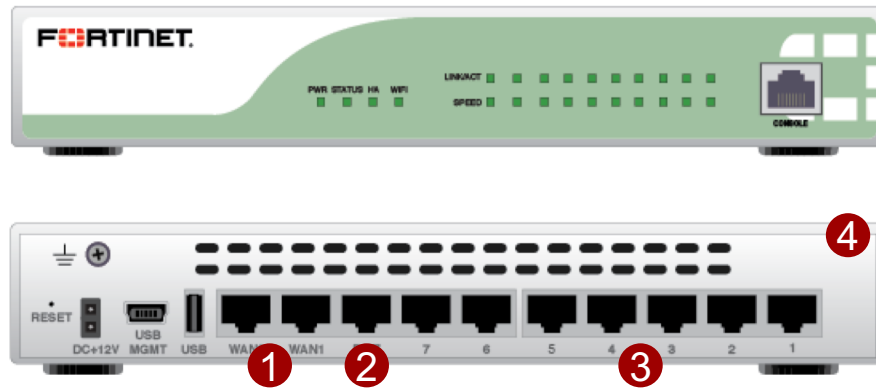
**21,000**  
New Sessions/Sec



**160 Mbps**  
Threat Protection Throughput



# FortiGate/FortiWiFi 60D



- ① 2x GE RJ45 WAN Ports
- ② 1x GE RJ45 DMZ Port
- ③ 7x GE RJ45 Ports
- ④ WiFi Variant: 802.11a/b/g/n



**1.5 Gbps**  
Firewall throughput



**50 Mbps**  
IPS Throughput



**23 Mbps**  
NGFW Throughput



**20 Mbps**  
Threat Protection Throughput

**500,000**  
Concurrent Sessions

**4,000**  
New Sessions/Sec

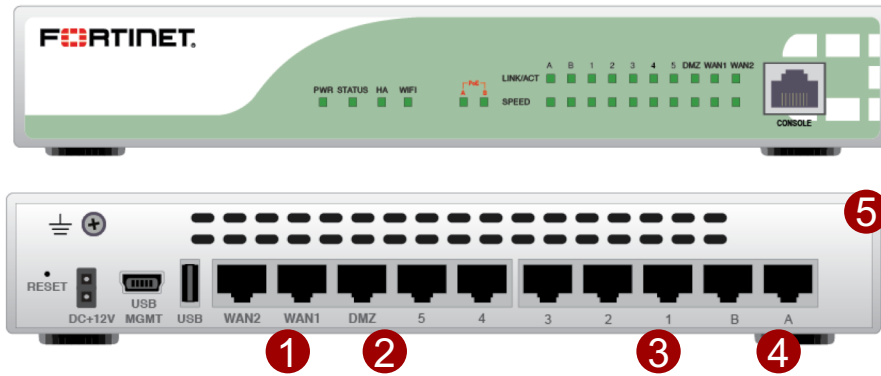


**Small Business / Remote Office**  
DEFW





# FortiGate/FortiWiFi 60D-POE



- ① 2x GE RJ45 WAN Ports
- ② 1x GE RJ45 DMZ Port
- ③ 5x GE RJ45 Ports
- ④ 2x GE RJ45 PoE Ports
- ⑤ WiFi Variant: 802.11a/b/g/n



**1.5 Gbps**  
Firewall throughput



**50 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**500,000**  
Concurrent Sessions



**23 Mbps**  
NGFW Throughput

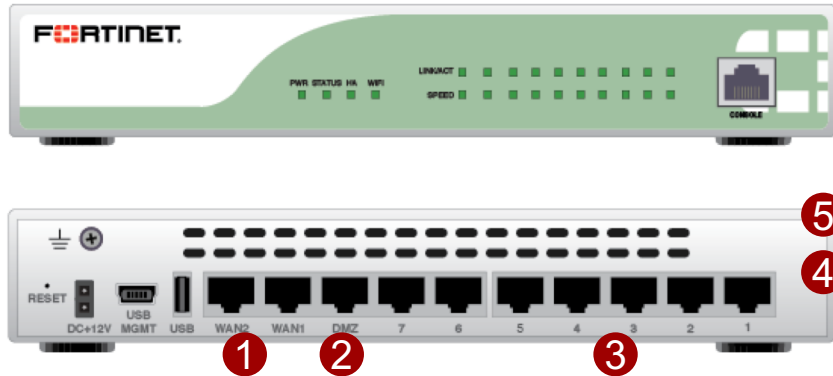
**4,000**  
New Sessions/Sec



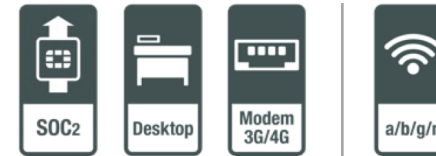
**20 Mbps**  
Threat Protection Throughput



# FortiGate/FortiWiFi 60D-3G4G-VZW



- ① 2x GE WAN Ports
- ② 1x GE DMZ Port
- ③ 7x GE RJ45 Ports
- ④ Internal 3G/4G Modem
- ⑤ WiFi Variant: 802.11a/b/g/n



**1.5 Gbps**  
Firewall throughput



**50 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**500,000**  
Concurrent Sessions



**23 Mbps**  
NGFW Throughput

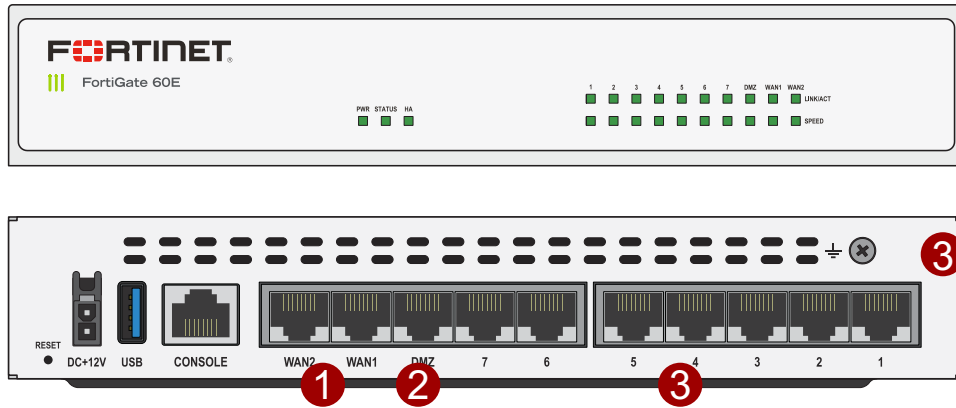
**4,000**  
New Sessions/Sec



**20 Mbps**  
Threat Protection Throughput



# FortiGate/FortiWiFi 60E



- ① 2 x GE RJ45 WAN Ports
- ② 1 x GE RJ45 DMZ Port
- ③ 7 x GE RJ45 Ports
- ④ WiFi Variant: 802.11a/b/g/n/ac



**3 Gbps**  
Firewall throughput



**400 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.3 Million**  
Concurrent Sessions



**250 Mbps**  
NGFW Throughput

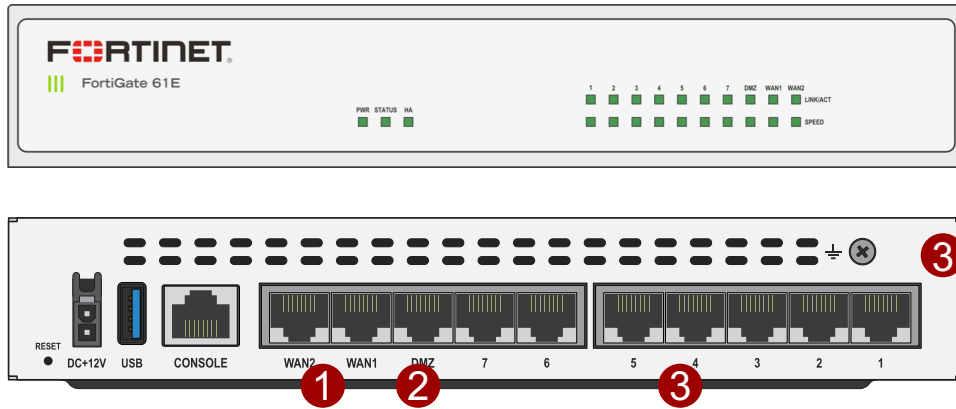
**30,000**  
New Sessions/Sec



**200 Mbps**  
Threat Protection Throughput



# FortiGate/FortiWiFi 61E



- ① 2 x GE RJ45 WAN Ports
- ② 1 x GE RJ45 DMZ Port
- ③ 7 x GE RJ45 Ports
- ④ WiFi Variant: 802.11a/b/g/n/ac



**3 Gbps**  
Firewall throughput



**400 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.3 Million**  
Concurrent Sessions



**250 Mbps**  
NGFW Throughput

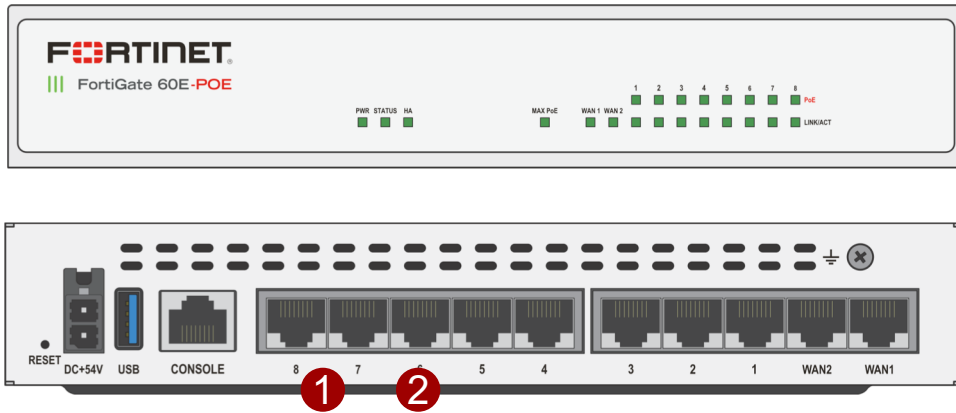
**30,000**  
New Sessions/Sec



**200 Mbps**  
Threat Protection Throughput



# FortiGate 60E-POE



- ① 8 x GE RJ45 PoE/+ Ports
- ② 2 x GE RJ45 WAN Ports



**3 Gbps**

Firewall throughput



**400 Mbps**

IPS Throughput



**Small Business / Remote Office**

DEFW

**1.3 Million**

Concurrent Sessions



**250 Mbps**

NGFW Throughput

**30,000**

New Sessions/Sec



**200 Mbps**

Threat Protection Throughput



200



100

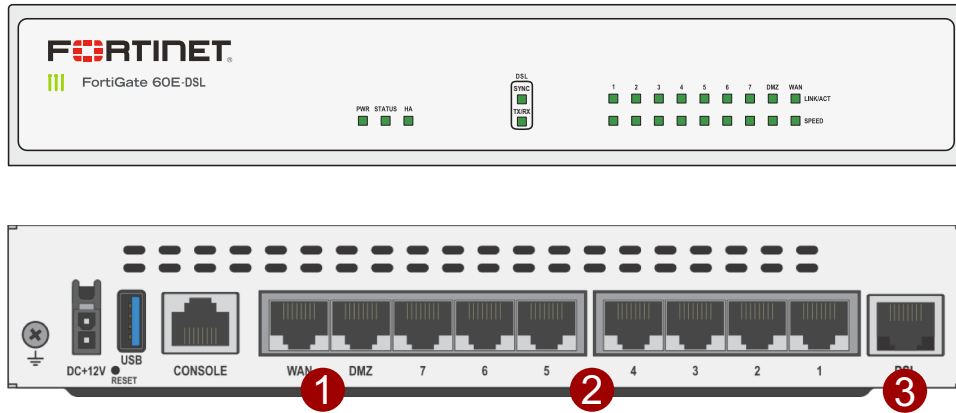


30



8

# FortiGate 60E-DSL



- ① 2 x GE RJ45 WAN/DMZ Ports
- ② 7 x GE RJ45 PoE/+ Ports
- ③ 1 x GE RJ11 DSL Ports



**3 Gbps**  
Firewall throughput



**400 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.3 Million**  
Concurrent Sessions



**250 Mbps**  
NGFW Throughput

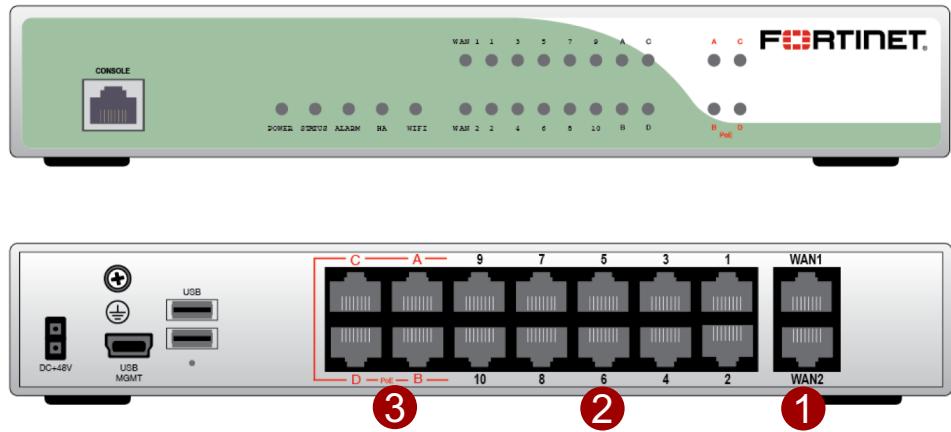
**30,000**  
New Sessions/Sec



**200 Mbps**  
Threat Protection Throughput



# FortiGate 70D-POE



- ① 2x GE RJ45 WAN Ports
- ② 10x GE RJ45 Switch Ports
- ③ 4x GE RJ45 PoE Ports



**3.5 Gbps**

Firewall throughput



**50 Mbps**

IPS Throughput



**Small Business / Remote Office**

DEFW

**1.5 Million**

Concurrent Sessions



**30 Mbps**

NGFW Throughput

**4,000**

New Sessions/Sec



**25 Mbps**

Threat Protection Throughput



200



100

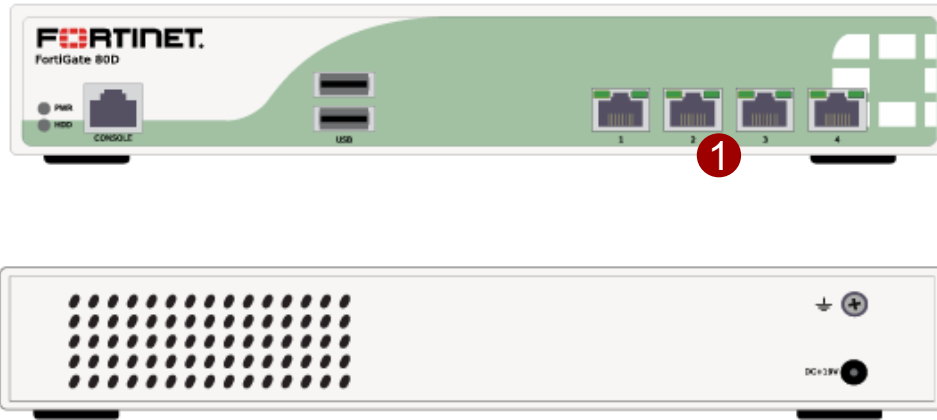


32



8

# FortiGate 80D



① 4x GE RJ45 Ports



**1.3 Gbps**

Firewall throughput



**245 Mbps**

IPS Throughput



**Small Business / Remote Office**

DEFW

**1.5 Million**

Concurrent Sessions



**210 Mbps**

NGFW Throughput

**22,000**

New Sessions/Sec



**190 Mbps**

Threat Protection Throughput



200



100



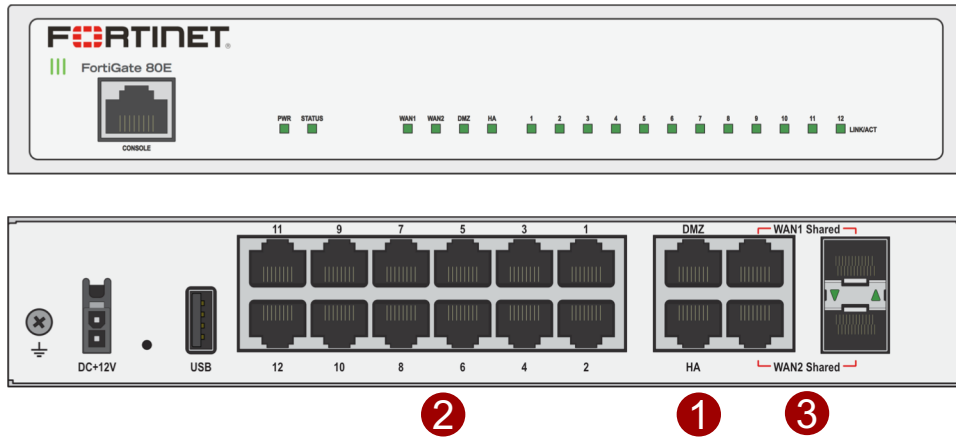
32



8



# FortiGate 80E/81E



- ① 2 x GE RJ45 DMZ/HA Port
- ② 12 x GE RJ45 Ports
- ③ 2x Shared Media interface Pairs



**4 Gbps**  
Firewall throughput



**450 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.3 Million**  
Concurrent Sessions



**360 Mbps**  
NGFW Throughput

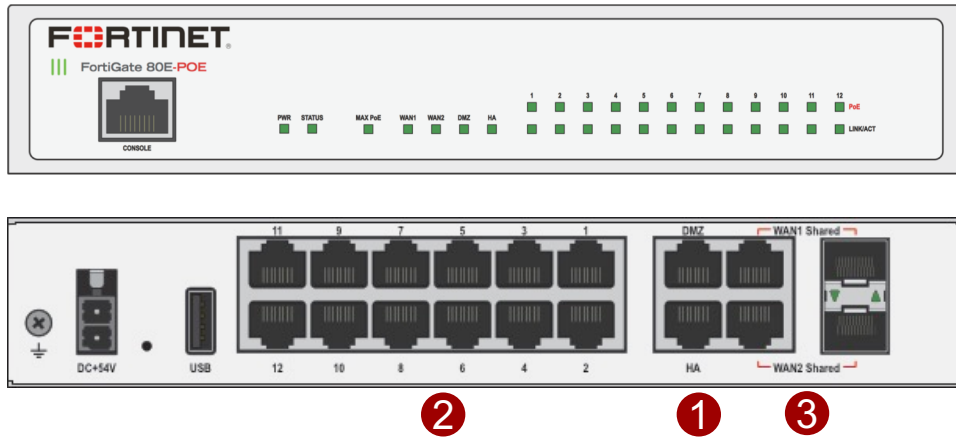
**30,000**  
New Sessions/Sec



**250 Mbps**  
Threat Protection Throughput



# FortiGate 80E/81E-POE



- ① 2 x GE RJ45 DMZ/HA Port
- ② 12 x GE RJ45 PoE Ports
- ③ 2x Shared Media interface Pairs



**4 Gbps**  
Firewall throughput



**450 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**1.3 Million**  
Concurrent Sessions



**360 Mbps**  
NGFW Throughput

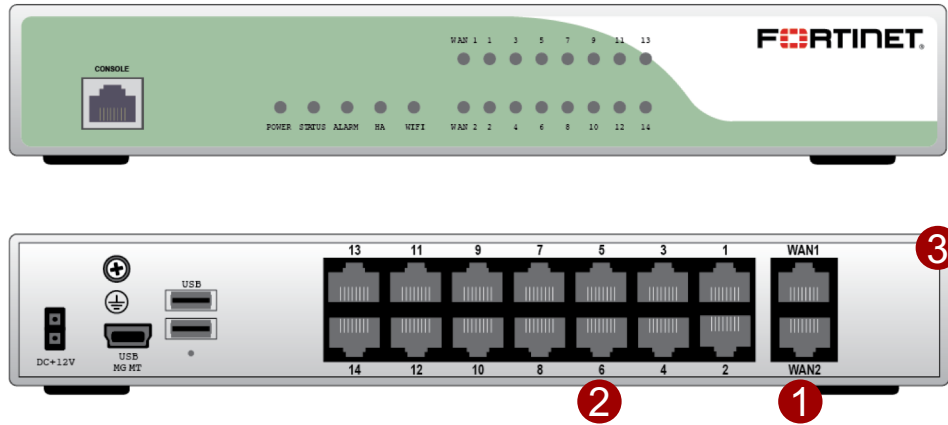
**30,000**  
New Sessions/Sec



**250 Mbps**  
Threat Protection Throughput



# FortiGate/FortiWiFi 90D



- ① 2x GE RJ45 WAN Ports
- ② 14x GE RJ45 Switch Ports
- ③ WiFi Variant: 802.11a/b/g/n



**3.5 Gbps**  
Firewall throughput



**50 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**2 Million**  
Concurrent Sessions



**30 Mbps**  
NGFW Throughput

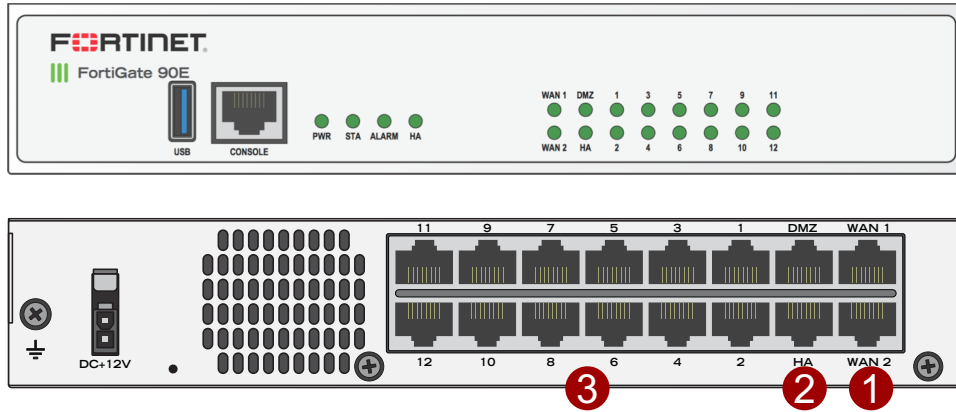
**4,000**  
New Sessions/Sec



**25 Mbps**  
Threat Protection Throughput



# FortiGate 90/91E



- ① 2 x GE RJ45 WAN Ports
- ② 2 x GE RJ45 DMZ/HA Ports
- ③ 12 x GE RJ45 Ports



**4 Gbps**

Firewall throughput

**1.2 Million**

Concurrent Sessions

**27,500**

New Sessions/Sec



**470 Mbps**

IPS Throughput



**375 Mbps**

NGFW Throughput



**270 Mbps**

Threat Protection Throughput



**Small Business / Remote Office**

DEFW



200



100

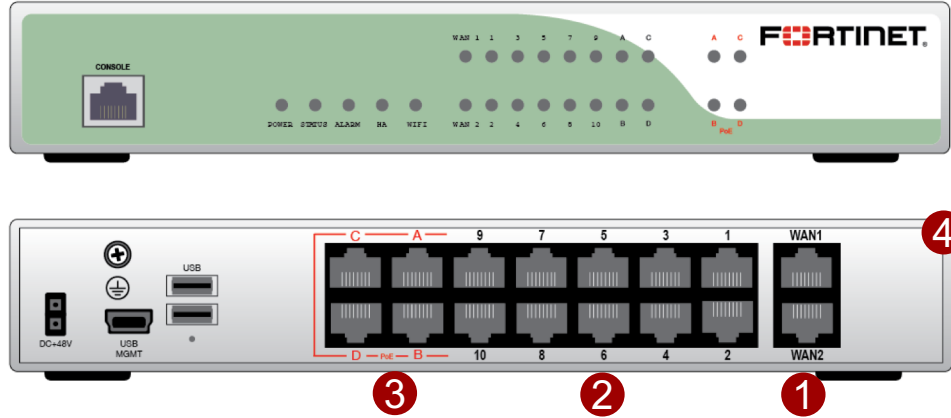


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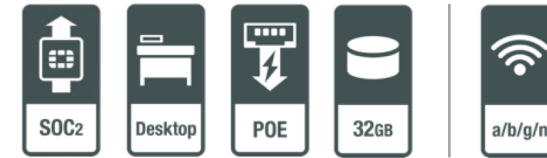


8

# FortiGate/FortiWiFi 90D-POE



- ① 2x GE RJ45 WAN Ports
- ② 10x GE RJ45 Switch Ports
- ③ 4x GE RJ45 PoE Ports
- ④ WiFi Variant: 802.11a/b/g/n



**3.5 Gbps**

Firewall throughput



**50 Mbps**

IPS Throughput



**Small Business / Remote Office**

DEFW

**2 Million**

Concurrent Sessions



**30 Mbps**

NGFW Throughput

**4,000**

New Sessions/Sec



**25 Mbps**

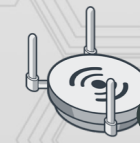
Threat Protection Throughput



200



100

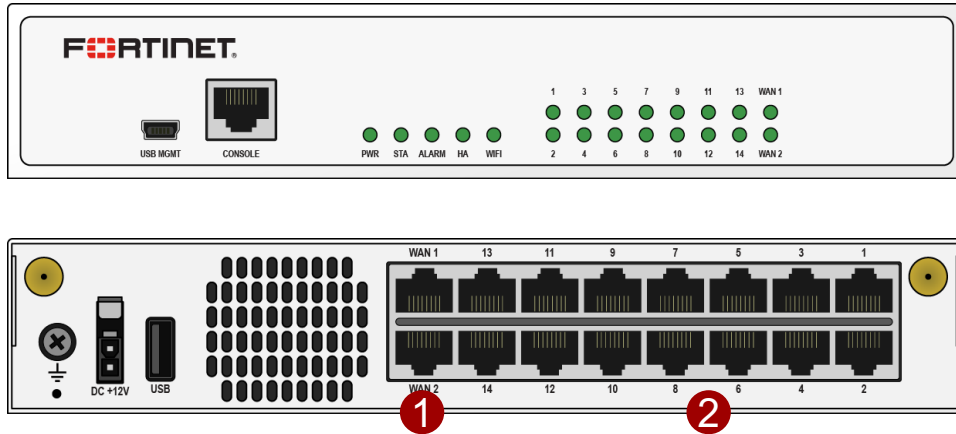


32



8

# FortiWiFi 92D



- ① 2x GE RJ45 WAN Ports
- ② 14x GE RJ45 Ports
- ③ 802.11a/b/g/n



**2.0 Gbps**

Firewall throughput



**260 Mbps**

IPS Throughput



**230 Mbps**

NGFW Throughput



**200 Mbps**

Threat Protection Throughput

**1.5 Million**

Concurrent Sessions

**22,000**

New Sessions/Sec



**Small Business / Remote Office**

DEFW



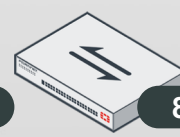
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100

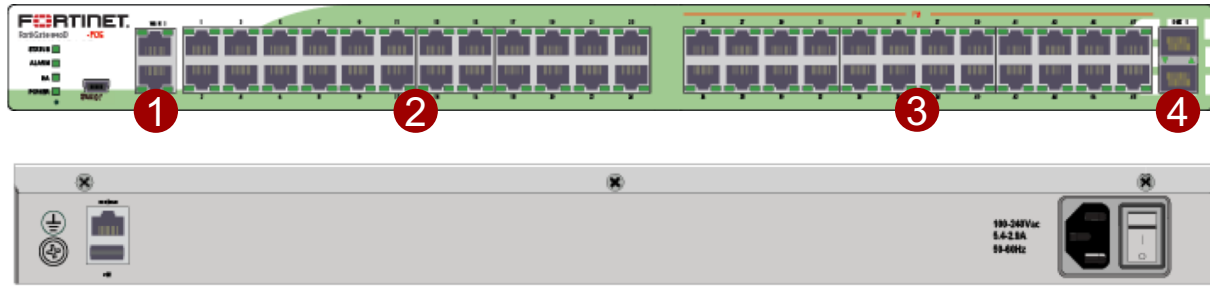


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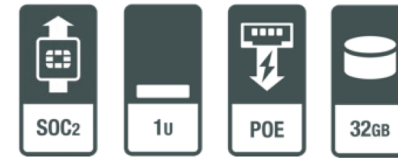


8

# FortiGate 94D-POE



- ① 2x GE RJ45 WAN Ports
- ② 24x GE RJ45 Switch Ports
- ③ 24x FE RJ45 PoE Ports
- ④ 2 x GE SFP DMZ slots



**3.5 Gbps**

Firewall throughput



**50 Mbps**

IPS Throughput



**30 Mbps**

NGFW Throughput



**25 Mbps**

Threat Protection Throughput

**2 Million**

Concurrent Sessions

**4,000**

New Sessions/Sec



**Small Business / Remote Office**

DEFW



200



100

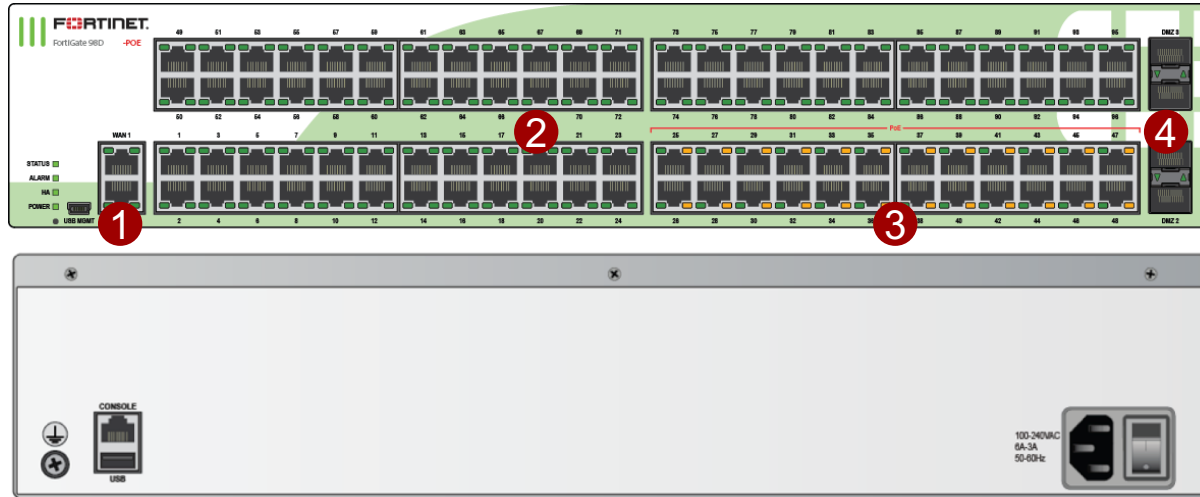


32



8

# FortiGate 98D-POE



- ① 2x GE RJ45 WAN Ports
- ② 72x GE RJ45 Switch Ports
- ③ 24x FE RJ45 PoE Ports
- ④ 4 x GE SFP DMZ slots



**3.5 Gbps**  
Firewall throughput



**50 Mbps**  
IPS Throughput



**Small Business / Remote Office**  
DEFW

**2 Million**  
Concurrent Sessions



**30 Mbps**  
NGFW Throughput

**4,000**  
New Sessions/Sec



**25 Mbps**  
Threat Protection Throughput



200



100



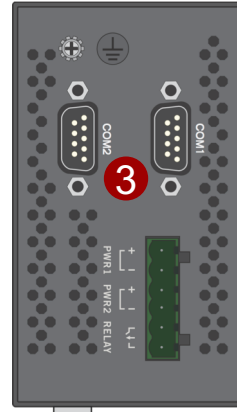
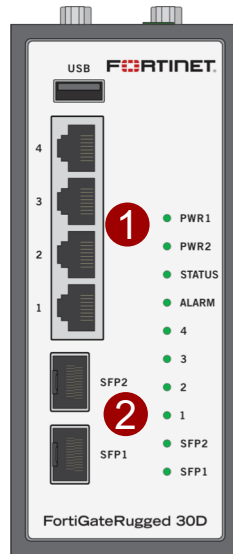
32



8



# FortiGate Rugged-30D



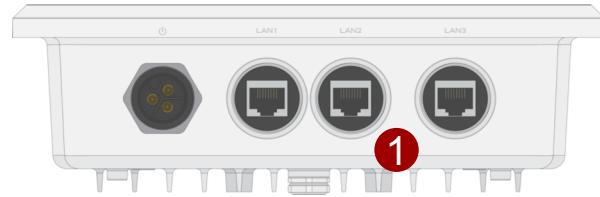
- ① 4x GE RJ45 Ports
- ② 2x GE SFP Slots
- ③ 2x DB9 Serial Port



## Hardware Performance

Firewall Throughput (1518b)	900 Mbps	IPS Throughput	230 Mbps
Firewall Latency	70 $\mu$ s	NGFW Throughput	TBA
Concurrent Sessions	750,000	Virtual Domains (Default / Max)	5 / 5
New Sessions/Sec	5,000	Max Number of FortiAPs (Total/Tunnel)	2 / 2
Firewall Policies	5,000	Max Number of FortiTokens	20
IPSec VPN Throughput	45 Mbps	Client-to-Gateway IPSec VPN Tunnels	250
SSL-VPN Throughput	25 Mbps	Concurrent SSL-VPN Users (Recommended Max)	80

# FortiGate Rugged-35D



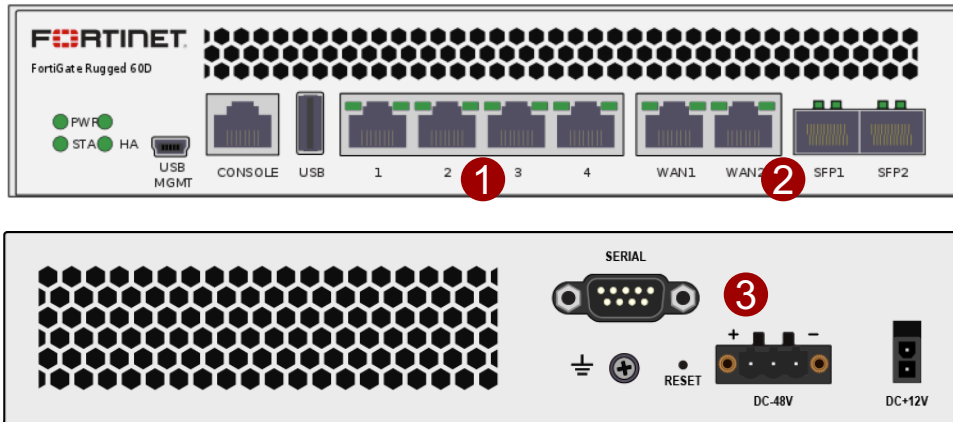
① 3x GE RJ45 Ports



## Hardware Performance

Firewall Throughput (1518b)	550 Mbps	IPS Throughput	230 Mbps
Firewall Latency	90 $\mu$ s	NGFW Throughput	TBA
Concurrent Sessions	750,000	Virtual Domains (Default / Max)	5 / 5
New Sessions/Sec	5,000	Max Number of FortiAPs (Total/Tunnel)	2 / 2
Firewall Policies	5,000	Max Number of FortiTokens	20
IPSec VPN Throughput	45 Mbps	Client-to-Gateway IPSec VPN Tunnels	250
SSL-VPN Throughput	25 Mbps	Concurrent SSL-VPN Users (Recommended Max)	80

# FortiGate Rugged-60D



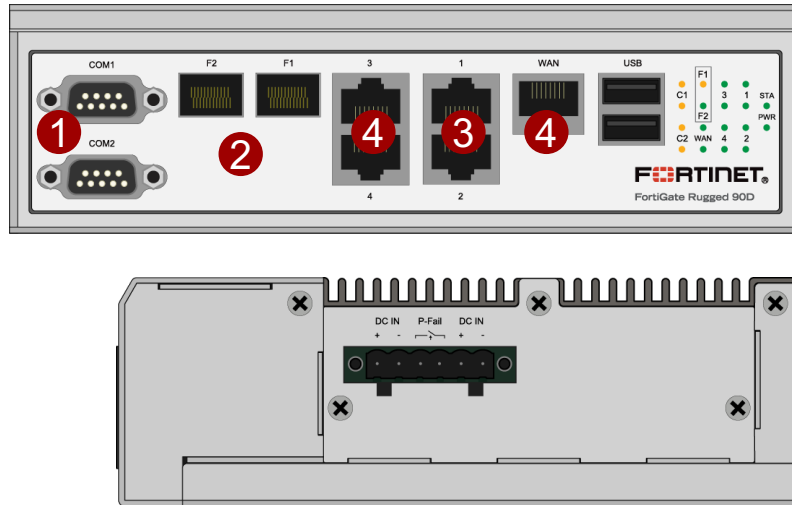
- ① 4x GE RJ45 Ports
- ② 2x Shared Media Pairs
- ③ 1x DB9 Serial Port



## Hardware Performance

Firewall Throughput (1518/512/64)	1.5 / 1.5 / 1.5 Gbps	IPS Throughput	200 Mbps
Firewall Latency	4 μs	NGFW Throughput	TBA
Concurrent Sessions	500,000	Virtual Domains (Default / Max)	10 / 10
New Sessions/Sec	4,000	Max Number of FortiAPs (Total/Tunnel)	10 / 5
Firewall Policies	5,000	Max Number of FortiTokens	100
IPSec VPN Throughput	1 Gbps	Client-to-Gateway IPSec VPN Tunnels	500
SSL-VPN Throughput	30 Mbps	Concurrent SSL-VPN Users (Recommended Max)	100

# FortiGate Rugged-90D



- ① 2x DB9 Serial Interface/Console
- ② 2x GE SFP Slots
- ③ 1x GE RJ45 Bypass Pair
- ④ 3x GE RJ45 ports



## Hardware Performance

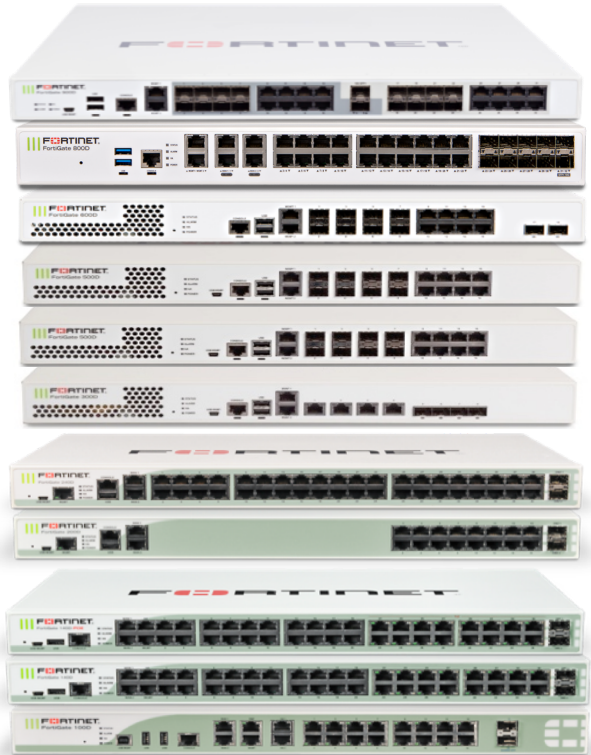
Firewall Throughput (1518/512/64)	2 Gbps	IPS Throughput	1.1 Gbps
Firewall Latency	51 $\mu$ s	NGFW Throughput	TBA
Concurrent Sessions	2.5 Million	Virtual Domains (Default / Max)	10 / 10
New Sessions/Sec	20,000	Max Number of FortiAPs (Total/Tunnel)	32 / 16
Firewall Policies	5,000	Max Number of FortiTokens	100
IPSec VPN Throughput	84 Mbps	Client-to-Gateway IPSec VPN Tunnels	1,000
SSL-VPN Throughput	115 Mbps	Concurrent SSL-VPN Users (Recommended Max)	200

# FortiGate Mid-Range Series



High Performance, Top Rated Network Security for Mid-Sized Enterprises

- FG-900D
- FG-800D
- FG-600D
- FG-500E
- FG-400D
- FG-300E
- FG-200E Series
- FG-100E Series



**2.5 Gbps – 50 Gbps**

Firewall throughput



**310 Mbps – 5.2 Gbps**

IPS Throughput



**200 Mbps – 5 Gbps**

NGFW Throughput



**200 Mbps – 4.7 Gbps**

Threat Protection Throughput



GE RJ45 | GE SFP | 10GE SFP+

# FortiGate Mid Range Devices: Comparison

	FGT-100D	FGT-100E Series	FGT-200D	FGT-240D	FGT-200E Series
<b>Firewall (1518/512/64 byte UDP)</b>	2500* Mbps	7.4 / 7.4 / 4.4 Gbps	3 / 3 / 3 Gbps	4 / 4 / 4 Gbps	20 / 20 / 9 Gbps
<b>Concurrent Sessions</b>	2 Mil	2 Mil	2 Mil	2 Mil	2 Mil
<b>New Sessions/Sec</b>	22,000	30,000	77,000	77,000	135,000
<b>IPSec VPN</b>	380 Mbps	4 Gbps	1.3 Gbps	1.3 Gbps	9 Gbps
<b>IPS (Ent. Mix)</b>	400 Mbps	500 Mbps	420 Mbps	350 Mbps	2.2 Gbps
<b>NGFW (Ent. Mix)</b>	250 Mbps	360 Mbps	330 Mbps	310 Mbps	1.8 Gbps
<b>Threat Protection (Ent. Mix)</b>	200 Mbps	250 Mbps	310 Mbps	310 Mbps	1.2 Gbps
<b>Interfaces</b>	20 x GE RJ45, 2x Shared Media Pairs	20 x GE RJ45, 2x Shared Media Pairs	18 x GE RJ45, 2 x GE SFP	42 x GE RJ45, 2 x GE SFP	18x GE RJ45, 4x GE SFP
<b>Storage</b>	32GB	480 GB (101E)	64 GB	64 GB	480 GB (201E)
<b>Variants</b>	LENC, high port density, PoE	-	PoE	PoE	-

# FortiGate Mid Range Devices: Comparison

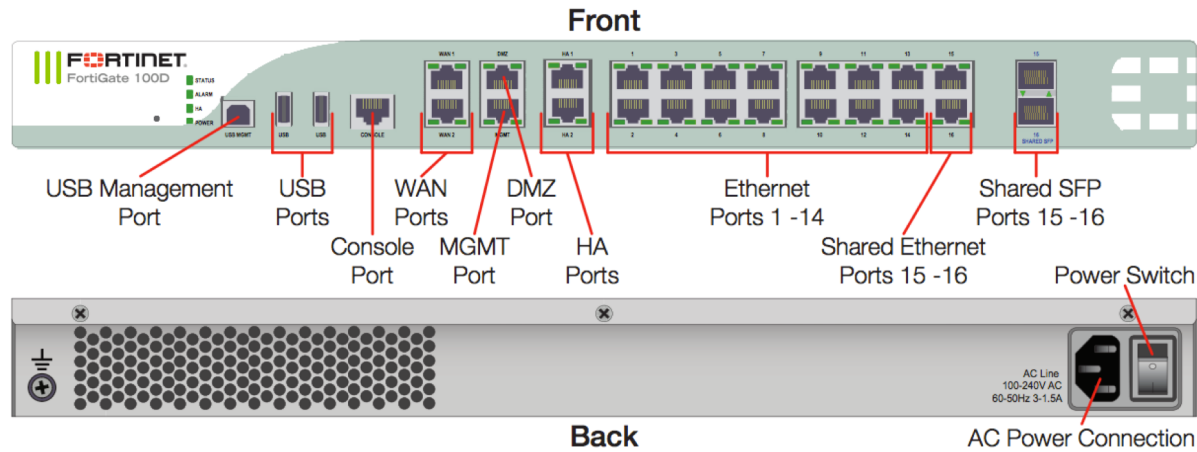
	FGT-300D	FGT-300E Series	FGT-400D	FGT-500D	FGT-500E Series
<b>Firewall</b> (1518/512/64 byte UDP)	8 / 8 / 8 Gbps	32 / 32 / 30 Gbps	16 / 16 / 16 Gbps	16 / 16 / 16 Gbps	36 / 36 / 32 Gbps
<b>Concurrent Sessions</b>	4 Mil	4 Mil	4 Mil	6 Mil	8 Mil
<b>New Sessions/Sec</b>	200,000	300,000	200,000	250,000	300,000
<b>IPSec VPN</b>	7 Gbps	20 Gbps	14 Gbps	14 Gbps	20 Gbps
<b>IPS (Ent. Mix)</b>	2 Gbps	5 Gbps	2 Gbps	3.5 Gbps	5.2 Gbps
<b>NGFW (Ent. Mix)</b>	1.7 Gbps	3.5 Gbps	1.7 Gbps	2.5 Gbps	5 Gbps
<b>Threat Protection (Ent. Mix)</b>	1.5 Gbps	3 Gbps	1.5 Gbps	2 Gbps	4.7 Gbps
<b>Interfaces</b>	6 x GE RJ45, 4 x GE SFP	18 x GE RJ45, 16 x GE SFP	10 x GE RJ45, 8 x GE SFP	10 x GE RJ45, 8 x GE SFP	2x 10 GE SFP+, 10x GE RJ45, 8x GE SFP
<b>Storage</b>	120 GB	480 GB (301E)	-	120 GB	480 GB (301E)
<b>Variants</b>	LENC	-	-	-	-

# FortiGate Mid Range Devices: Comparison

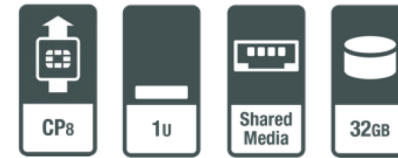
	FG-600D	FG-800D	FG-900D
<b>Firewall</b> (1518/512/64 byte UDP)	36 / 36 / 24 Gbps	36 / 36 / 22 Gbps	52 / 52 / 33 Gbps
<b>Concurrent Sessions</b>	5.5 Mil	5 Mil	11 Mil
<b>New Sessions/Sec</b>	270,000	280,000	280,000
<b>IPSec VPN</b>	20 Gbps	20 Gbps	25 Gbps
<b>IPS (Ent. Mix)</b>	4 Gbps	4.2 Gbps	4.2 Gbps
<b>NGFW (Ent. Mix)</b>	3.8 Gbps	4 Gbps	4 Gbps
<b>Threat Protection</b> (Ent. Mix)	3 Gbps	3 Gbps	3 Gbps
<b>Interfaces</b>	2x 10GE SPF+ , 8x GE SFP, 8x GE RJ45	2x 10 GE SFP+, 8x GE SFP, 4x GE RJ45 Bypass, 22x GE RJ45	2x 10GE SPF+ , 16x GE SFP, 18x GE RJ45
<b>Storage</b>	120 GB	240 GB	256 GB
<b>Variants</b>	-	-	-



# FortiGate 100D



- ① 2x GE RJ45 WAN Ports
- ② 1x GE RJ45 DMZ Interface Port
- ③ 1x GE RJ45 Mgmt Interface Port
- ④ 2x GE RJ45 HA Interface Port
- ⑤ 14x GE RJ45 Switch Ports
- ⑥ 2x Shared Media interface Pairs



**2.5 Gbps**

Firewall throughput



**400 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**250 Mbps**

NGFW Throughput

**22,000**

New Sessions/Sec

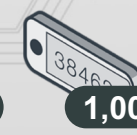


**200 Mbps**

Threat Protection Throughput



600



1,000

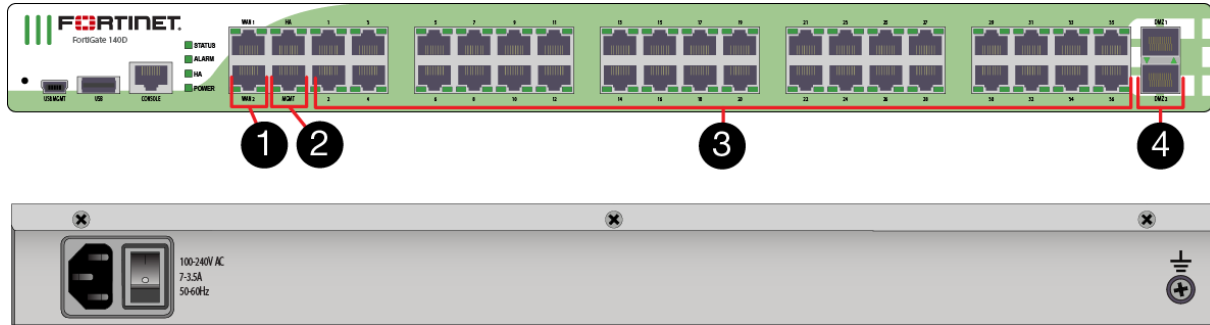


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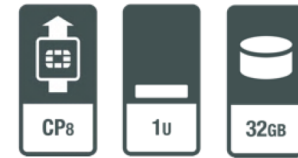


24

# FortiGate 140D



- ① 2x GE RJ45 WAN Ports
- ② 2x GE RJ45 Mgmt/HA Interface Ports
- ③ 36x GE RJ45 Switch Ports
- ④ 2x GE SFP DMZ Interface



**2.5 Gbps**

Firewall throughput



**400 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**250 Mbps**

NGFW Throughput

**22,000**

New Sessions/Sec



**200 Mbps**

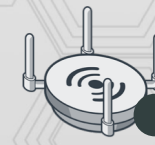
Threat Protection Throughput



600



1,000

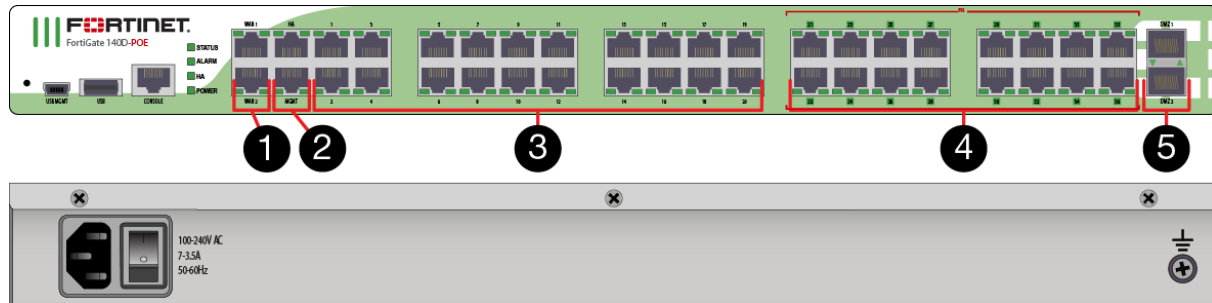


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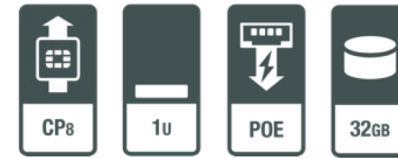


24

# FortiGate 140D-POE



- ① 2x GE RJ45 WAN Ports
- ② 2x GE RJ45 Mgmt/HA Interface Ports
- ③ 20x GE RJ45 Switch Ports
- ④ 16x GE RJ45 PoE Ports
- ⑤ 2x GE SFP DMZ Interface Ports



**2.5 Gbps**

Firewall throughput



**400 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**250 Mbps**

NGFW Throughput

**22,000**

New Sessions/Sec



**200 Mbps**

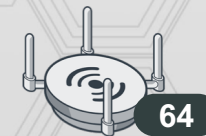
Threat Protection Throughput



600



1,000

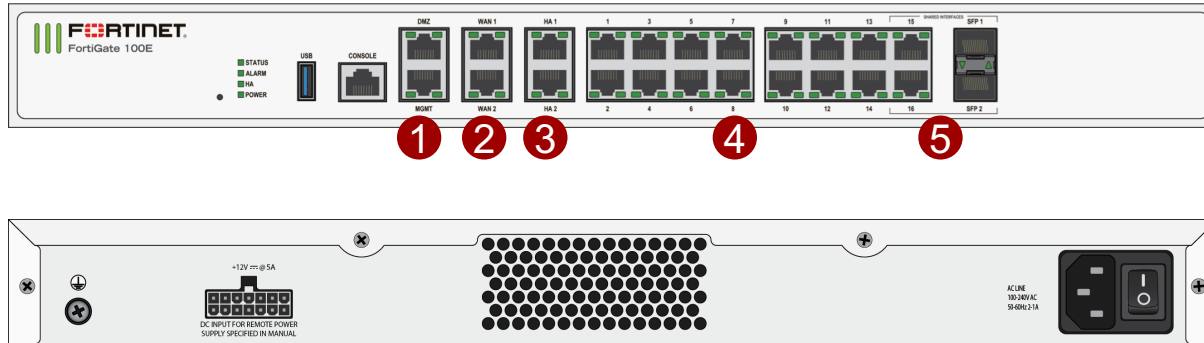


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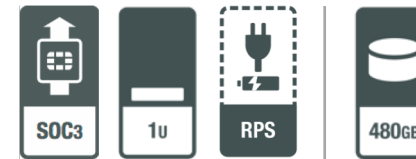


24

# FortiGate 100/101E



- ① 2 x GE RJ45 MGMT/DMZ Ports
- ② 2 x GE RJ45 HA Ports
- ③ 2 x GE RJ45 WAN Port
- ④ 14 x GE RJ45 Ports
- ⑤ 2 x GE RJ45/SFP Shared Media Pairs



**7.4 Gbps**

Firewall throughput



**500 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**360 Mbps**

NGFW Throughput

**30,000**

New Sessions/Sec

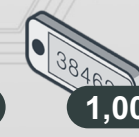


**250 Mbps**

Threat Protection Throughput



600



1,000

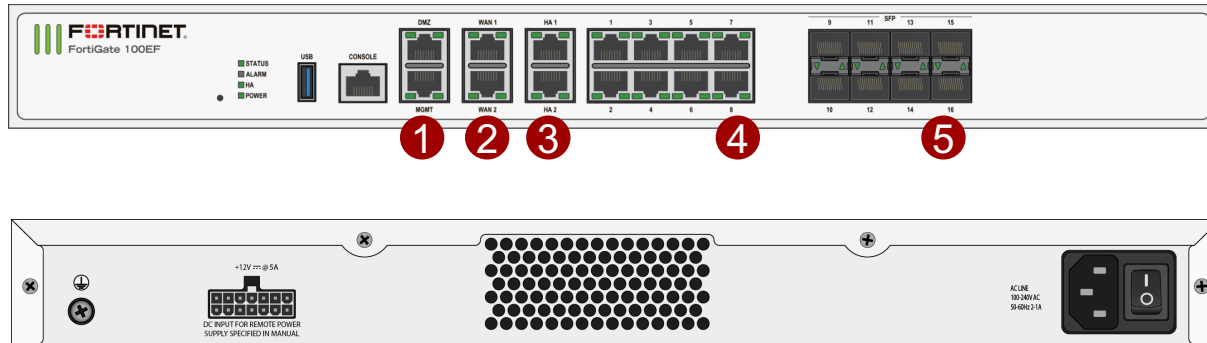


64



24

# FortiGate 100EF



- ① 2 x GE RJ45 MGMT/DMZ Ports
- ② 2 x GE RJ45 WAN Ports
- ③ 2 x GE RJ45 HA Port
- ④ 8 x GE RJ45 Ports
- ⑤ 8 x GE SFP Slots



**7.4 Gbps**  
Firewall throughput



**500 Mbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**360 Mbps**  
NGFW Throughput

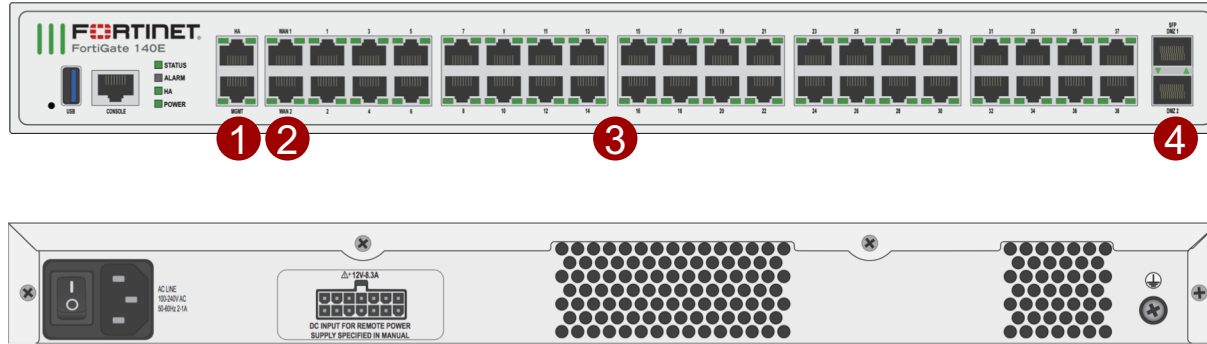
**30,000**  
New Sessions/Sec



**250 Mbps**  
Threat Protection Throughput



# FortiGate 140E



- ① 2 x GE RJ45 MGMT/HAPorts
- ② 2 x GE RJ45 WAN Ports
- ③ 38 x GE RJ45 Ports
- ④ 2 x GE SFP DMZ Slots



**7.4 Gbps**

Firewall throughput



**500 Mbps**

IPS Throughput



**360 Mbps**

NGFW Throughput



**250 Mbps**

Threat Protection Throughput

**2 Million**

Concurrent Sessions

**30,000**

New Sessions/Sec



**Small Business / Branch Office**

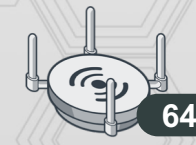
DEFW / NGFW



600



1,000

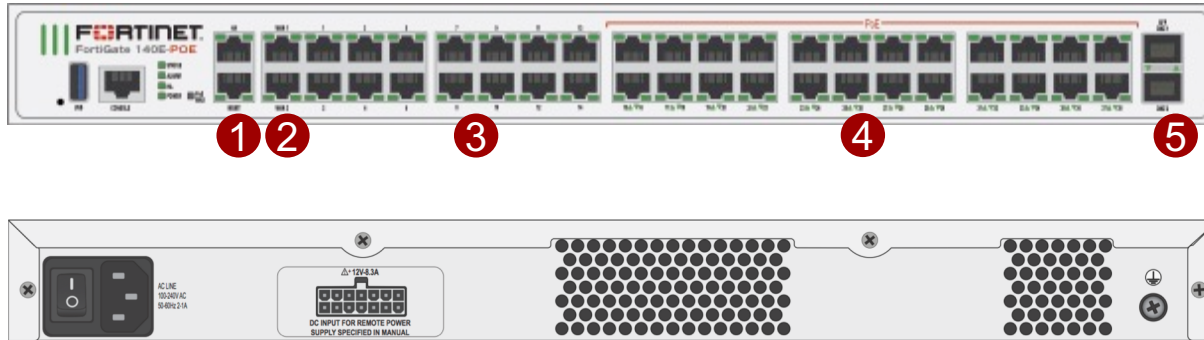


64



24

# FortiGate 140E-POE



- ① 2 x GE RJ45 MGMT/HA Ports
- ② 2 x GE RJ45 WAN Ports
- ③ 14x GE RJ45 Ports
- ④ 24x GE PoE/+ Ports
- ⑤ 2 x GE SFP DMZ Slots



**7.4 Gbps**

Firewall throughput



**500 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**360 Mbps**

NGFW Throughput

**30,000**

New Sessions/Sec

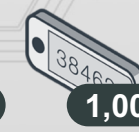


**250 Mbps**

Threat Protection Throughput



600



1,000

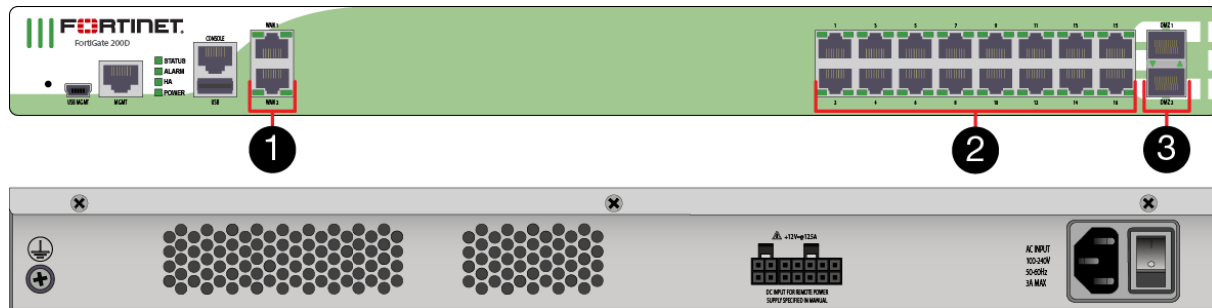


64



24

# FortiGate 200D



- ① 2x GE RJ45 WAN Ports
- ② 16x GE RJ45 Switch Ports
- ③ 2x GE SFP Slots



**3 Gbps**

Firewall throughput



**420 Mbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**2 Million**

Concurrent Sessions



**330 Mbps**

NGFW Throughput

**77,000**

New Sessions/Sec



**310 Mbps**

Threat Protection Throughput



600



1,000



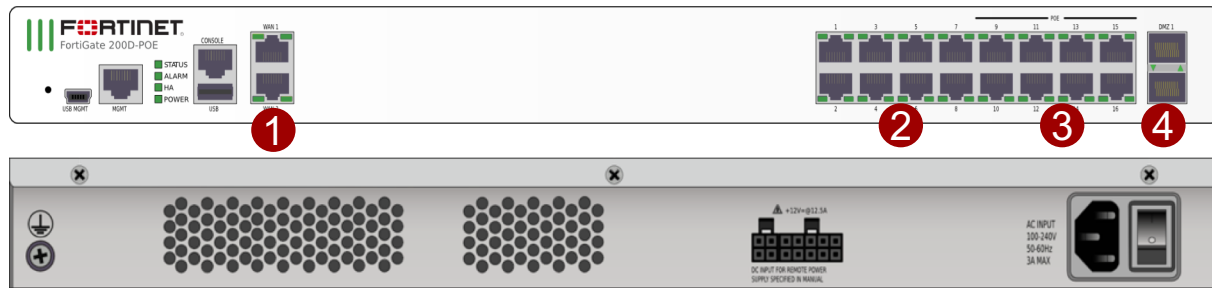
128



24



# FortiGate 200D-POE



- ① 2x GE RJ45 WAN Ports
- ② 8x GE RJ45 Switch Ports
- ③ 8x GE RJ45 PoE Ports
- ④ 2x GE SFP Slots



**3 Gbps**  
Firewall throughput



**420 Mbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**330 Mbps**  
NGFW Throughput

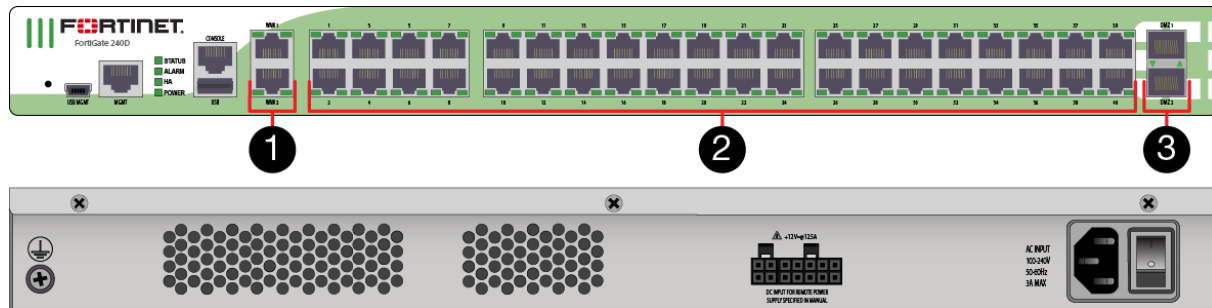
**77,000**  
New Sessions/Sec



**310 Mbps**  
Threat Protection Throughput



# FortiGate 240D



- ① 2x GE RJ45 WAN Ports
- ② 40x GE RJ45 Switch Ports
- ③ 2x GE SFP Slots



**4 Gbps**  
Firewall throughput



**420 Mbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**330 Mbps**  
NGFW Throughput

**77,000**  
New Sessions/Sec



**310 Mbps**  
Threat Protection Throughput



600



1,000

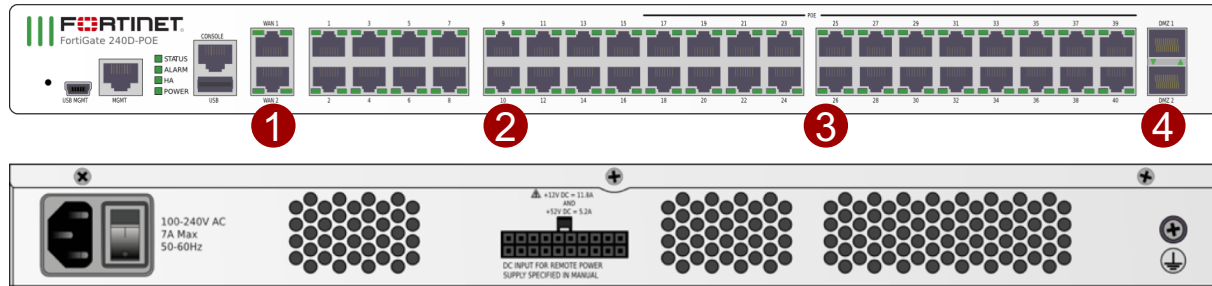


128



24

# FortiGate 240D-POE



- ① 2x GE RJ45 WAN Ports
- ② 16x GE RJ45 Switch Ports
- ③ 24x GE RJ45 PoE Ports
- ④ 2x GE SFP Slots



**4 Gbps**  
Firewall throughput



**420 Mbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**330 Mbps**  
NGFW Throughput

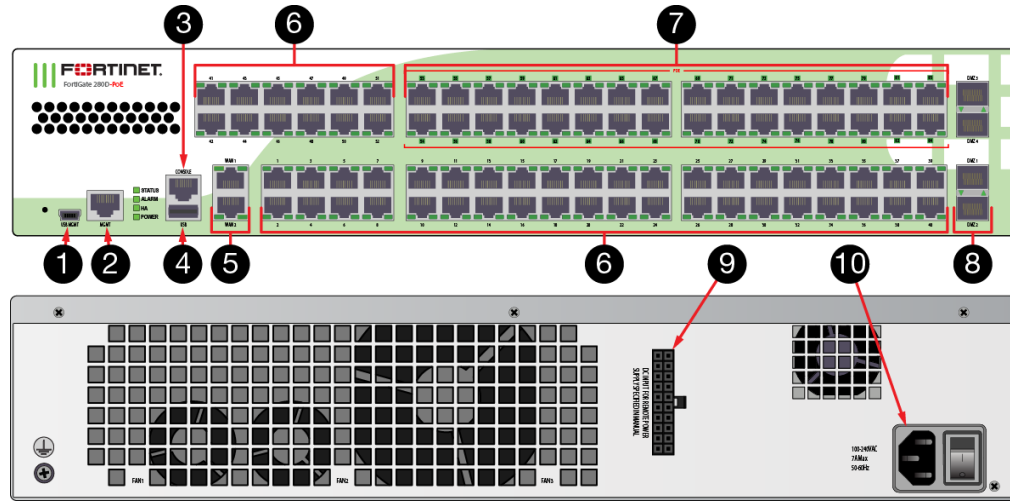
**77,000**  
New Sessions/Sec



**310 Mbps**  
Threat Protection Throughput



# FortiGate 280D-POE



- ① 2 x GE RJ45 WAN Interfaces
- ② 52 x GE RJ45 LAN Interfaces
- ③ 32 x GE RJ45 PoE LAN Interfaces
- ④ 4 x GE SFP DMZ Interfaces



**3 Gbps**  
Firewall throughput



**420 Mbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**330 Mbps**  
NGFW Throughput

**77,000**  
New Sessions/Sec



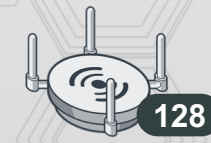
**310 Mbps**  
Threat Protection Throughput



600



1,000

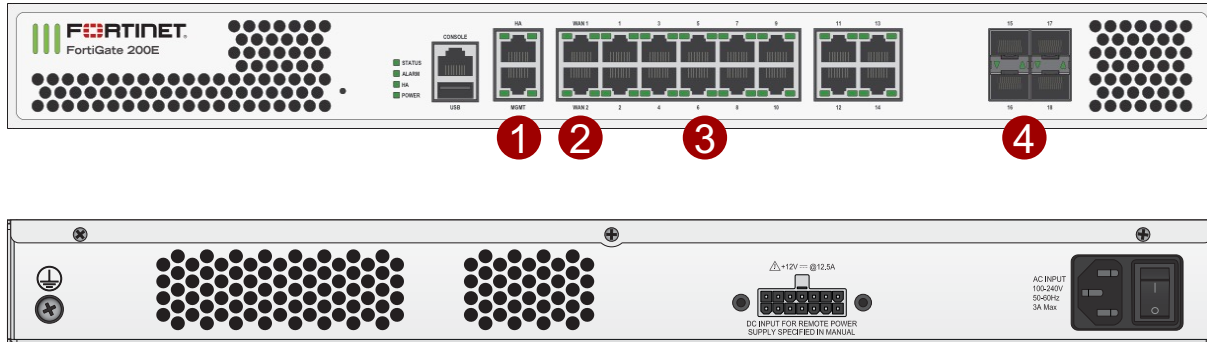


128

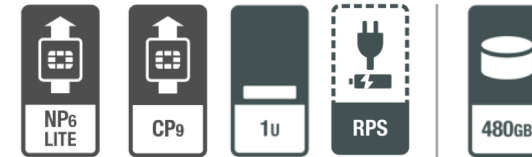


24

# FortiGate 200/201E



- ① 2 x GE RJ45 MGMT/HA Ports
- ② 2 x GE RJ45 WAN Ports
- ③ 14 x GE RJ45 DMZ Port
- ④ 4 x GE SFP Slots



**20 Gbps**  
Firewall throughput



**2.2 Gbps**  
IPS Throughput



**Small Business / Branch Office**  
DEFW / NGFW

**2 Million**  
Concurrent Sessions



**1.8 Gbps**  
NGFW Throughput

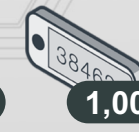
**135,000**  
New Sessions/Sec



**1.2 Gbps**  
Threat Protection Throughput



600



1,000

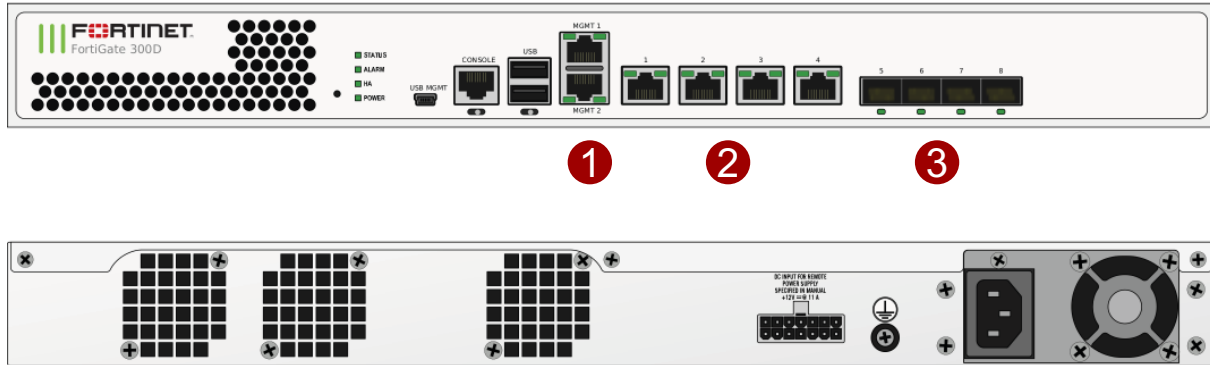


128



24

# FortiGate 300D



- ① 2x GE RJ45 Management Ports
- ② 4x GE RJ45 Ports
- ③ 4x GE SFP Slots



**8 Gbps**

Firewall throughput



**2 Gbps**

IPS Throughput



**Branch Office / Mid Enterprise**

DEFW / NGFW

**4 Million**

Concurrent Sessions



**1.7 Gbps**

NGFW Throughput

**200,000**

New Sessions/Sec



**1.5 Gbps**

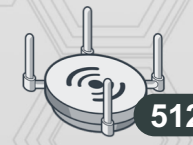
Threat Protection Throughput



600



1,000

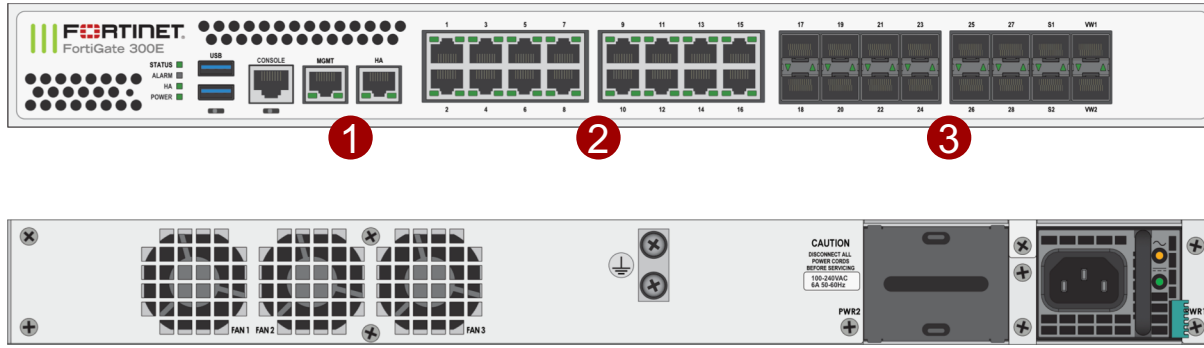


512

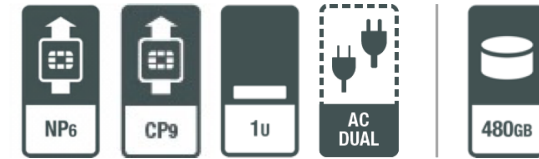


48

# FortiGate 300/301E



- ① 2 x GE RJ45 MGMT/HA Ports
- ② 16 x GE RJ45 Ports
- ③ 16 x GE SFP Slots



**32 Gbps**

Firewall throughput



**5 Gbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**4 Million**

Concurrent Sessions



**3.5 Gbps**

NGFW Throughput

**300,000**

New Sessions/Sec



**3 Gbps**

Threat Protection Throughput



600



1,000

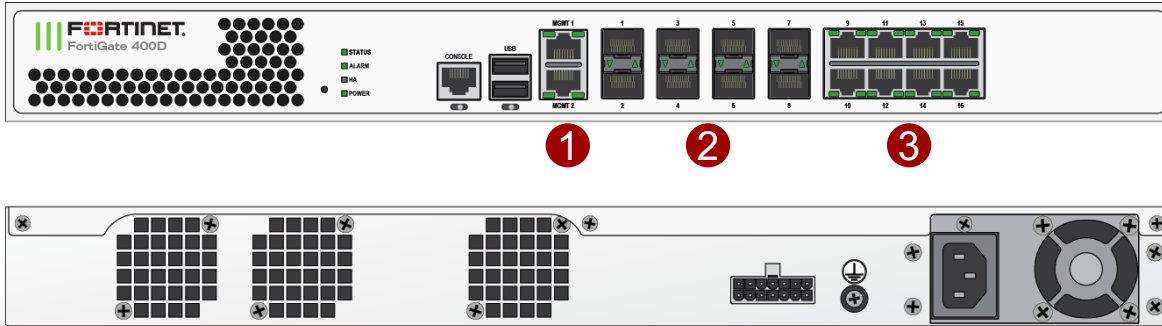


512



48

# FortiGate 400D



- ① 2x GE RJ45 Management Ports
- ② 8x GE SFP Slots
- ③ 8x GE RJ45 Ports



**16 Gbps**

Firewall throughput



**2 Gbps**

IPS Throughput



**1.7 Gbps**

NGFW Throughput



**1.5 Gbps**

Threat Protection Throughput

**4 Million**

Concurrent Sessions

**200,000**

New Sessions/Sec

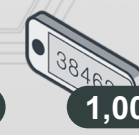


**Branch Office / Mid Enterprise**

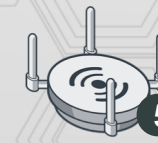
DEFW / NGFW



600



1,000



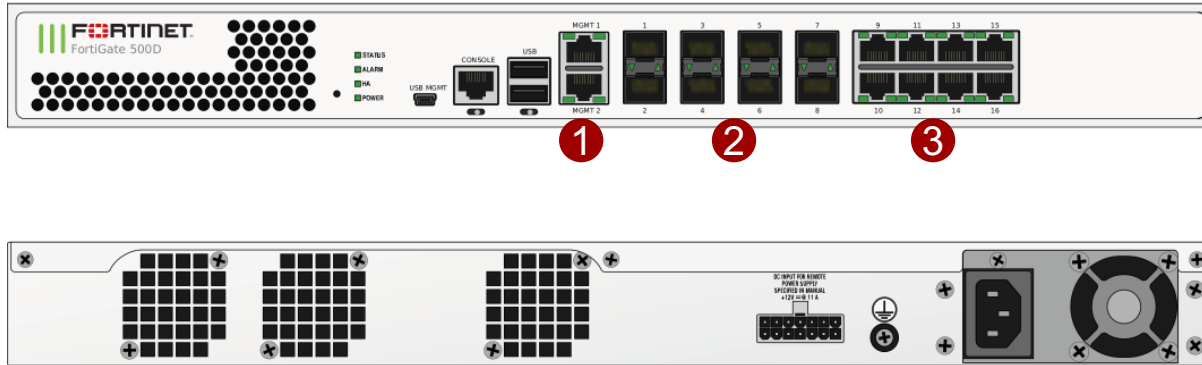
512



48



# FortiGate 500D



- ① 2x GE RJ45 Management Ports
- ② 8x GE SFP Slots
- ③ 8x GE RJ45 Ports



**16 Gbps**

Firewall throughput



**3.5 Gbps**

IPS Throughput



**Branch Office / Mid Enterprise**

DEFW / NGFW

**6 Million**

Concurrent Sessions



**2.5 Gbps**

NGFW Throughput

**250,000**

New Sessions/Sec



**2 Gbps**

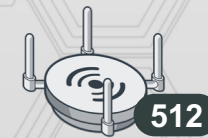
Threat Protection Throughput



2,000



1,000

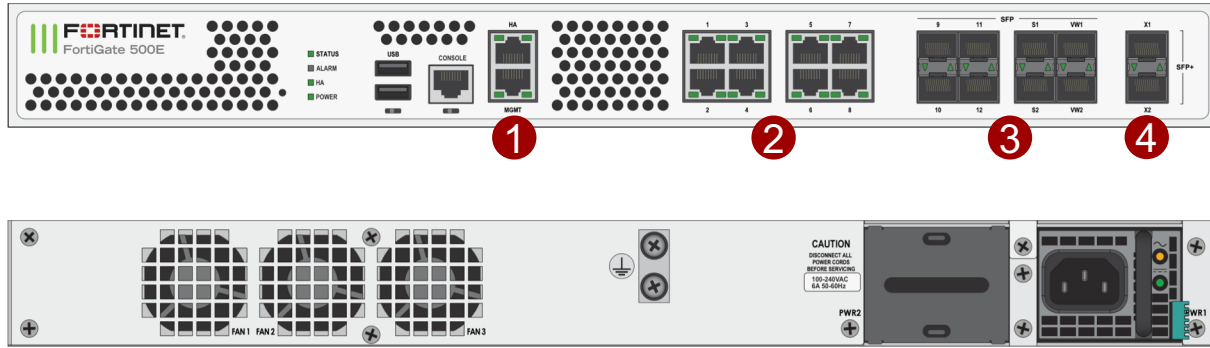


512

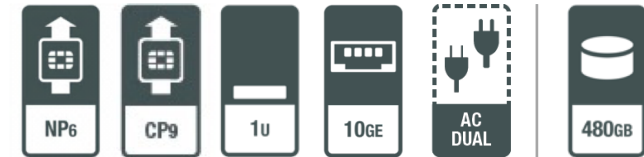


48

# FortiGate 500/501E



- ① 2 x GE RJ45 MGMT/HA Ports
- ② 8 x GE RJ45 Ports
- ③ 8 x GE SFP Slots
- ④ 2x 10GE SFP+ Slots



**36 Gbps**

Firewall throughput



**5.2 Gbps**

IPS Throughput



**Small Business / Branch Office**

DEFW / NGFW

**8 Million**

Concurrent Sessions



**5 Gbps**

NGFW Throughput

**300,000**

New Sessions/Sec

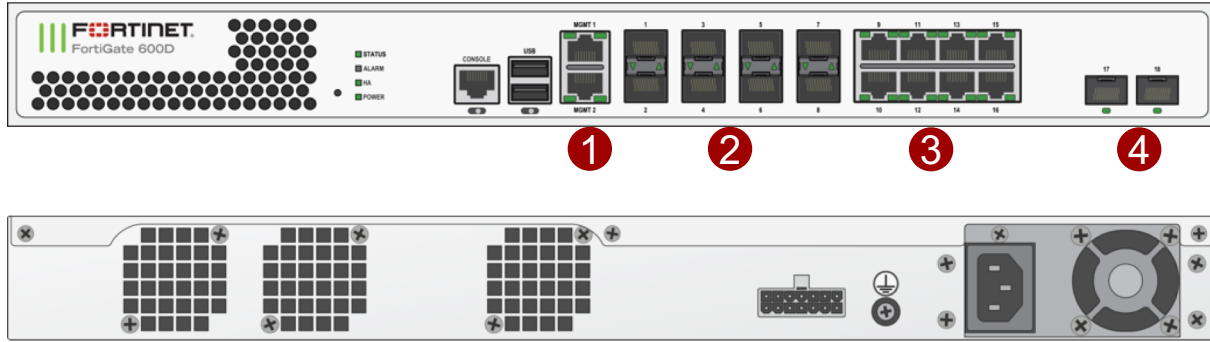


**4.7 Gbps**

Threat Protection Throughput



# FortiGate 600D



- ① 2x GE RJ45 Management Ports
- ② 8x GE SFP Slots
- ③ 8x GE RJ45 Ports
- ④ 2x 10GE SPF+ Slots



**36 Gbps**

Firewall throughput



**4 Gbps**

IPS Throughput



**Branch Office / Mid Enterprise**

NGFW / ISFW

**5.5 Million**

Concurrent Sessions



**3.8 Gbps**

NGFW Throughput

**270,000**

New Sessions/Sec



**3 Gbps**

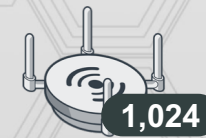
Threat Protection Throughput



2,000



1,000

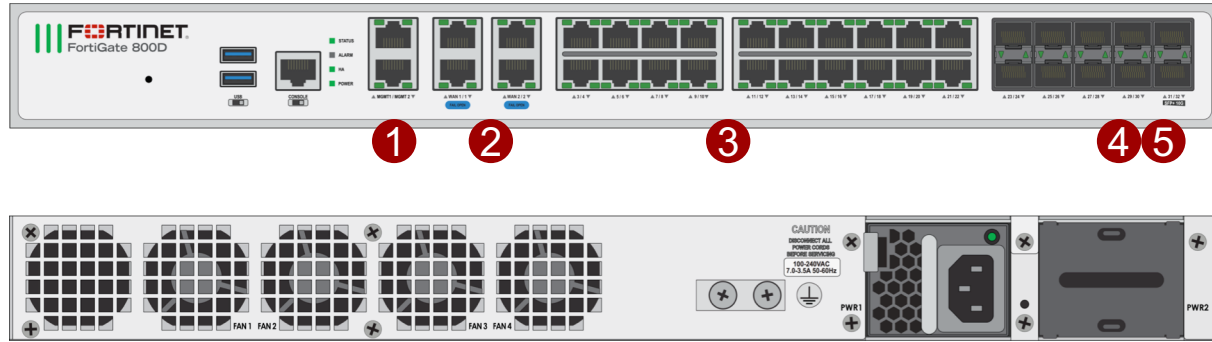


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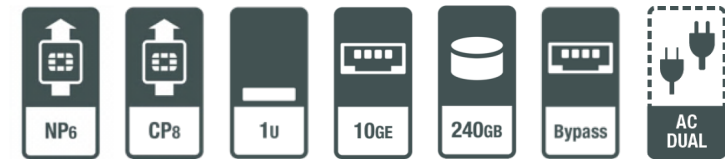


64

# FortiGate 800D



- ① 2x GE RJ45 Management Ports
- ② 2x Bypass GE RJ45 Pairs
- ③ 20x GE RJ45 Ports
- ④ 8x GE SPF Slots
- ⑤ 2x 10GE SPF+ Slots



**36 Gbps**

Firewall throughput



**4.2 Gbps**

IPS Throughput



**4 Gbps**

NGFW Throughput



**3 Gbps**

Threat Protection Throughput

**5 Million**

Concurrent Sessions

**280,000**

New Sessions/Sec



**Branch Office / Mid Enterprise**

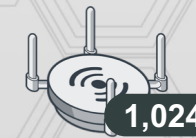
NGFW / ISFW



2,000



1,000

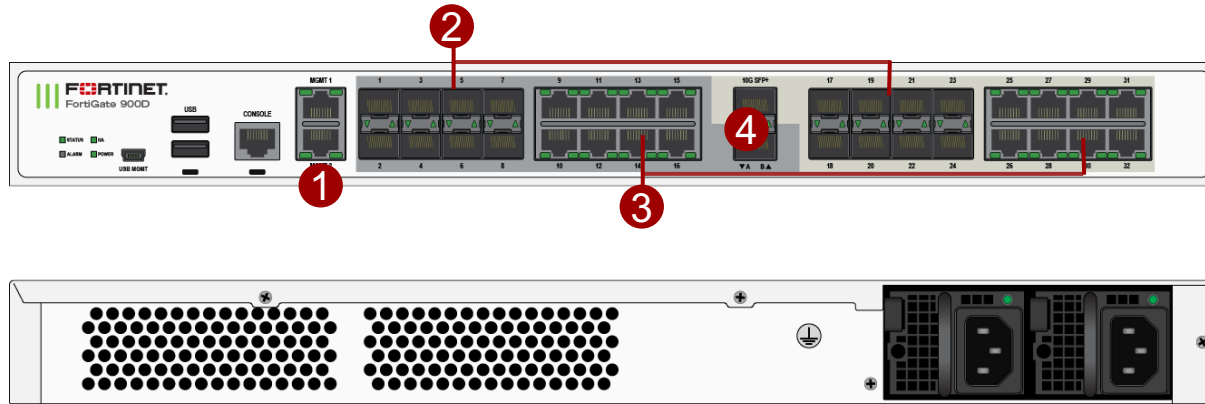


1,024

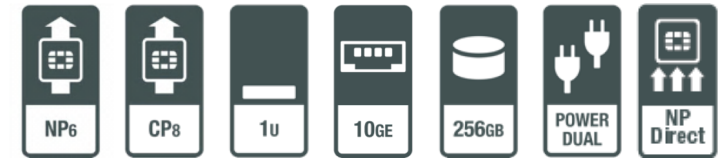


64

# FortiGate 900D



- ① 2x GE RJ45 Management Ports
- ② 16x GE SFP Slots
- ③ 16x GE RJ45 Ports
- ④ 2x 10GE SFP+ Slots



**52 Gbps**

Firewall throughput



**4.2 Gbps**

IPS Throughput



**4 Gbps**

NGFW Throughput



**3 Gbps**

Threat Protection Throughput

**11 Million**

Concurrent Sessions

**280,000**

New Sessions/Sec



**Branch Office / Mid Enterprise**

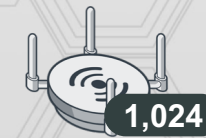
NGFW / ISFW



2,000



1,000



1,024

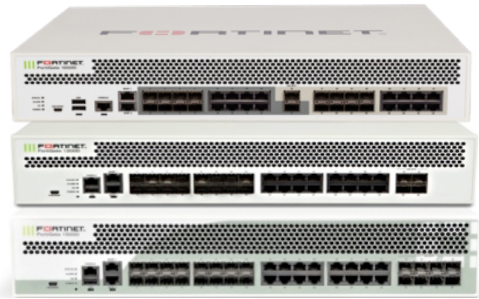


64

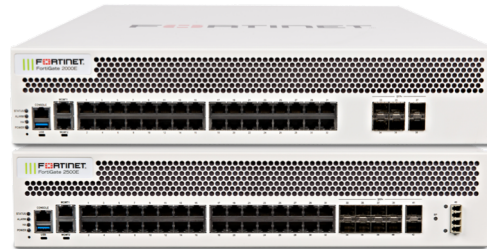
# FortiGate High End Series



Data Center Firewall / Large Enterprise NGFW with High Speed Interfaces

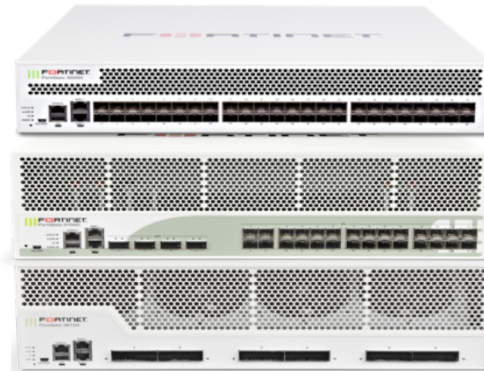
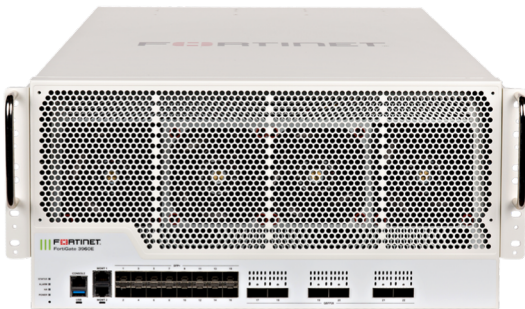


 **FG-1000D Series**



 **FG-2000E Series**

 **FG-3000D/E Series**



**52 Gbps – 320 Gbps**

Firewall throughput



**6 Gbps – 26 Gbps**

IPS Throughput



**5 Gbps – 24 Gbps**

NGFW Throughput



**3 Gbps – 15 Gbps**

Threat Protection Throughput



**GE RJ45 | GE SFP | 10GE SFP+  
40GE QSFP+ | 100GE CFP2/QSFP28**

# FortiGate 1000 & 2000 Series: Comparison

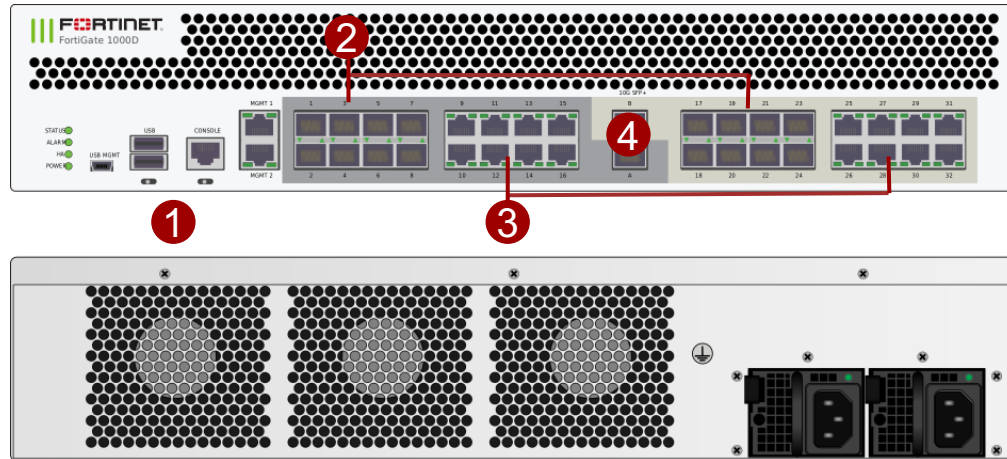
	FG-1000D	FG-1200D	FG-1500D	FG-2000E	FG-2500E
<b>Firewall (1518/512/64 byte UDP)</b>	52 / 52 / 33 Gbps	72 / 72 / 55 Gbps	80 / 80 / 55 Gbps	90 / 90 / 60 Gbps	150 / 150 / 95 Gbps
<b>Concurrent Sessions</b>	11 Mil	11 Mil	12 Mil	20 Mil	20 Mil
<b>New Sessions/Sec</b>	280,000	290,000	300,000	500,000	500,000
<b>IPSec VPN</b>	25 Gbps	48 Gbps	50 Gbps	65 Gbps	65 Gbps
<b>IPS (Ent. Mix)</b>	6 Gbps	6.8 Gbps	13 Gbps	11.5 Gbps	11.5 Gbps
<b>NGFW (Ent. Mix)</b>	5 Gbps	6 Gbps	7 Gbps	9 Gbps	9 Gbps
<b>Threat Protection (Ent. Mix)</b>	3 Gbps	4 Gbps	5 Gbps	5.4 Gbps	5.4 Gbps
<b>Interfaces</b>	2x 10GE SPF+ , 16x GE SFP, 18x GE RJ45,	4x 10GE SPF/+, 16x GE SFP, 18x GE RJ45	8x 10GE SPF/+, 16x GE SFP, 18x GE RJ45	6x 10GE SPF+, 34x GE RJ45	2x 10GE Bypass SFP+, 10x 10GE SPF+, 34x GE RJ45
<b>Storage</b>	256 GB	240 GB	480 GB	480 GB	480 GB
<b>Variants</b>	-	-	DC, 10 GE RJ45	-	-

# FortiGate 3000 Series: Comparison

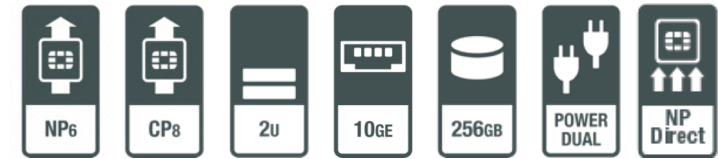
	FG-3000D	FG-3100D	FG-3200D	FG-3700D	FG-3800D	FG-3960E	FG-3980E
<b>Firewall (1518/512/64 byte UDP)</b>	80 / 80 / 50 Gbps	80 / 80 / 50 Gbps	80 / 80 / 50 Gbps	160 / 160 / 110 Gbps	320 / 300 / 150 Gbps	620 / 610 / 370 Gbps	1.05 Tbps / 1.05 Tbps / 680 Gbps
<b>Concurrent Sessions</b>	50 Mil	50 Mil	50 Mil	50 Mil	95 Mil	160 Million	160 Million
<b>New Sessions/Sec</b>	400,000	400,000	400,000	400,000	480,000	550,000	550,000
<b>IPSec VPN</b>	50 Gbps	50 Gbps	50 Gbps	100 Gbps	135 Gbps	280 Gbps	400 Gbps
<b>IPS (Ent. Mix)</b>	23 Gbps	22 Gbps	26 Gbps	28 Gbps	30 Gbps	30 Gbps	32 Gbps
<b>NGFW (Ent. Mix)</b>	22 Gbps	18 Gbps	24 Gbps	20 Gbps	20 Gbps	22 Gbps	28 Gbps
<b>Threat Protection (Ent. Mix)</b>	13 Gbps	13 Gbps	15 Gbps	13 Gbps	13 Gbps	13.5 Gbps	18.5 Gbps
<b>Interfaces</b>	16x 10GE SFP+ 2 x GE RJ45	32x 10GE SFP+ 2 x GE RJ45	48x 10GE SFP+ 2 x GE RJ45	4 x 40GE QSFP+, 20 x 10-GE SFP+ /GE SFP Slots, 8 x ultra-low latency 2 x GE RJ45	4 x 100GE CFP2, 4 x 40GE QSFP+, 8x 10GE SFP+, 2 x GE RJ45	6x 100GE QSFP28, 16x 10GE SFP+, 2x GE RJ45	10x 100GE QSFP28, 16x 10GE SFP+, 2x GE RJ45
<b>Storage</b>	480 GB	480 GB	960 GB	2x 1TB	960 GB	-	-
<b>Variants</b>	DC	DC	DC	DC, NEBS	DC, 3810D, 3815D	DC	DC



# FortiGate 1000D



- ① 2x GE RJ45 Management Ports
- ② 16x GE SFP Slots
- ③ 16x GE RJ45 Ports
- ④ 2x 10GE SPF+ Slots



**52 Gbps**

Firewall throughput



**6 Gbps**

IPS Throughput



**5 Gbps**

NGFW Throughput



**3 Gbps**

Threat Protection Throughput

**11 Million**

Concurrent Sessions

**280,000**

New Sessions/Sec



**Large Enterprise / Data Center**

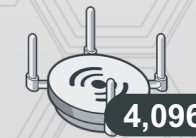
NGFW / ISFW / DCFW



20,000



5,000

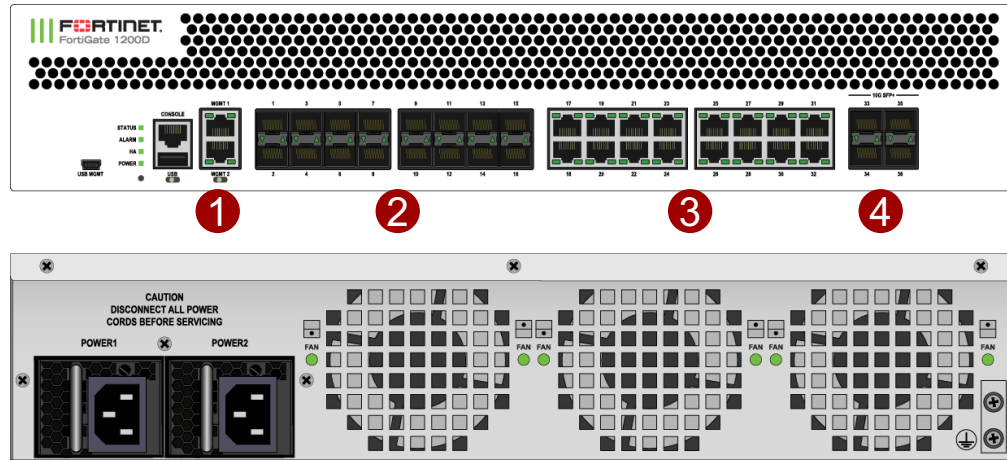


4,096

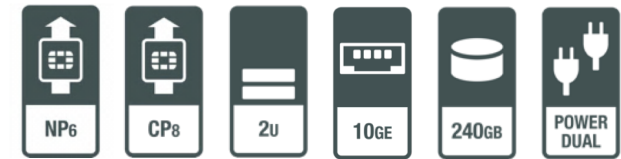


128

# FortiGate 1200D



- ① 2x GE RJ45 Management Ports
- ② 16x GE SFP Slots
- ③ 16x GE RJ45 Ports
- ④ 4x 10GE SPF/+ Slots



**72 Gbps**

Firewall throughput



**6.8 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW

**11 Million**

Concurrent Sessions



**6 Gbps**

NGFW Throughput

**290,000**

New Sessions/Sec



**4 Gbps**

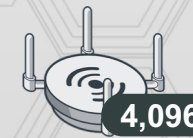
Threat Protection Throughput



20,000



5,000

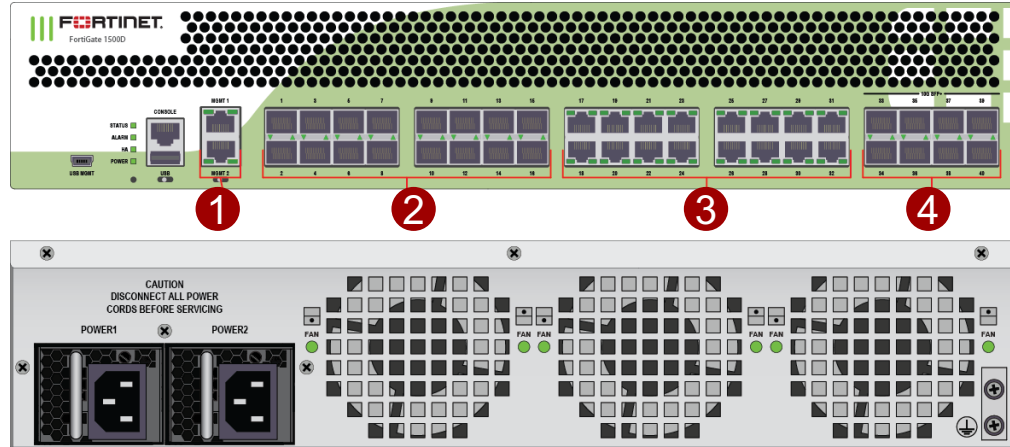


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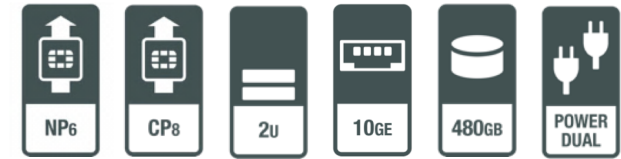


128

# FortiGate 1500D



- ① 2x GE RJ45 Management Ports
- ② 16x GE SFP Slots
- ③ 16x GE RJ45 Ports
- ④ 8x 10GE SPF/+ Slots



**80 Gbps**

Firewall throughput



**13 Gbps**

IPS Throughput



**7 Gbps**

NGFW Throughput



**5 Gbps**

Threat Protection Throughput

**12 Million**

Concurrent Sessions

**300,000**

New Sessions/Sec

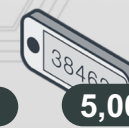


**Large Enterprise / Data Center**

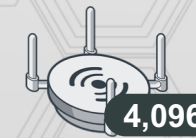
NGFW / ISFW / DCFW



20,000



5,000

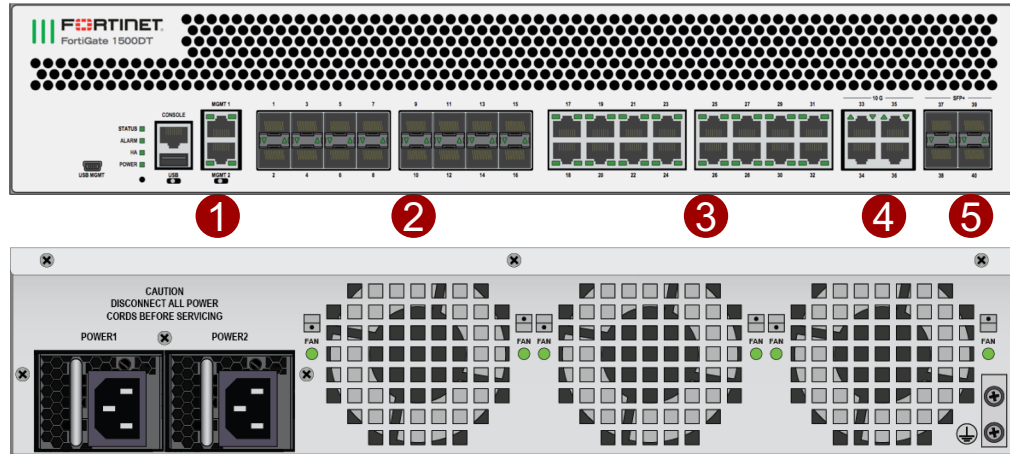


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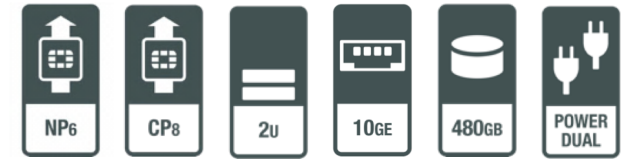


128

# FortiGate 1500DT



- ① 2x GE RJ45 Management Ports
- ② 16x GE SFP Slots
- ③ 16x GE RJ45 Ports
- ④ 4x 10GE RJ45 Ports
- ⑤ 4x 10GE SPF/+ Slots



**80 Gbps**

Firewall throughput



**13 Gbps**

IPS Throughput



**7 Gbps**

NGFW Throughput



**5 Gbps**

Threat Protection Throughput

**12 Million**

Concurrent Sessions

**300,000**

New Sessions/Sec

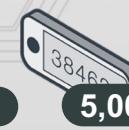


**Large Enterprise / Data Center**

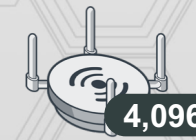
NGFW / ISFW / DCFW



20,000



5,000

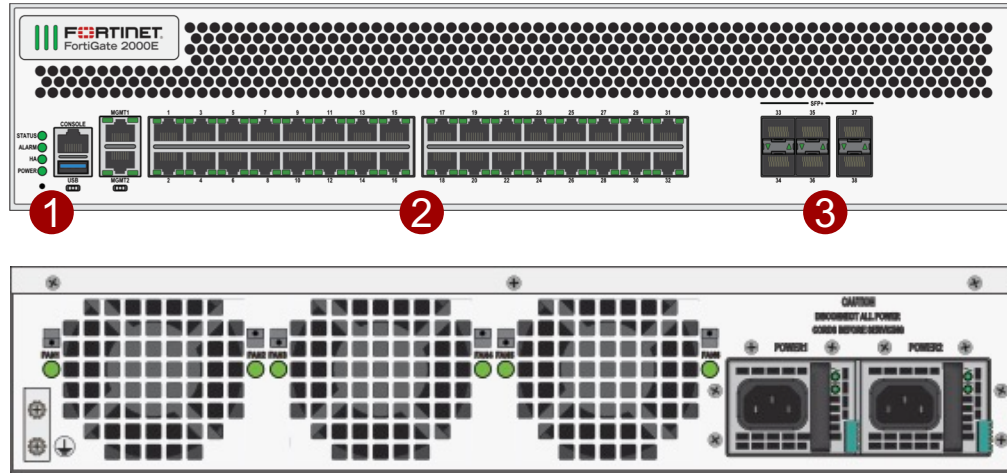


4,096



128

# FortiGate 2000E



- ① 2x GE RJ45 Management Ports
- ② 32x GE RJ45 Ports
- ③ 6x 10GE SFP+ Slots



**90 Gbps**

Firewall throughput



**11.5 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW

**20 Million**

Concurrent Sessions



**9 Gbps**

NGFW Throughput

**500,000**

New Sessions/Sec



**5.4 Gbps**

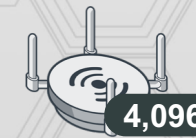
Threat Protection Throughput



20,000



5,000

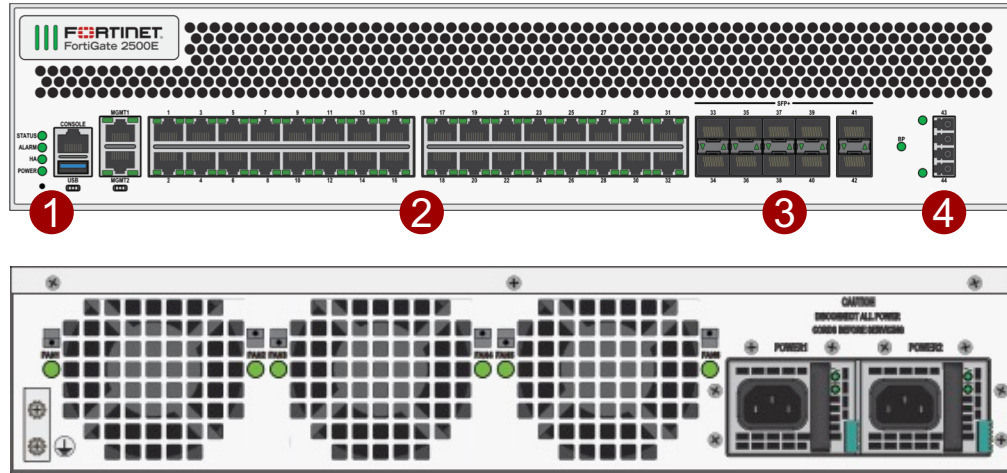


4,096

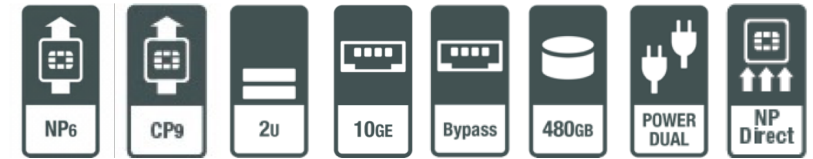


128

# FortiGate 2500E



- ① 2x GE RJ45 Management Ports
- ② 32x GE RJ45 Ports
- ③ 10x 10GE SFP+ Slots
- ④ 2x 10GE SFP+ SR Bypass (LC Connector)



**150 Gbps**

Firewall throughput



**11.5 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW

**20 Million**

Concurrent Sessions



**9 Gbps**

NGFW Throughput

**500,000**

New Sessions/Sec



**5.4 Gbps**

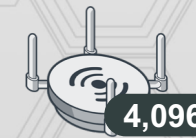
Threat Protection Throughput



20,000



5,000

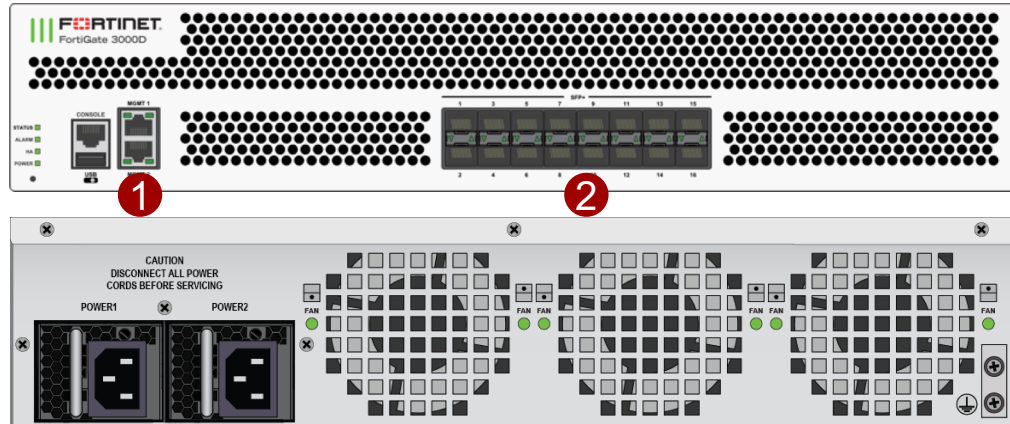


4,096

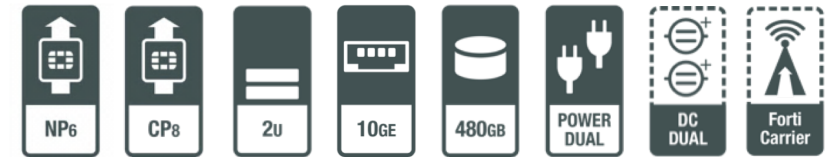


128

# FortiGate 3000D



- ① 2x GE RJ45 Management Ports
- ② 16x 10G SFP+/GE SFP Slots



**80 Gbps**  
Firewall throughput



**23 Gbps**  
IPS Throughput



**22 Gbps**  
NGFW Throughput



**13 Gbps**  
Threat Protection Throughput

**50 Million**  
Concurrent Sessions

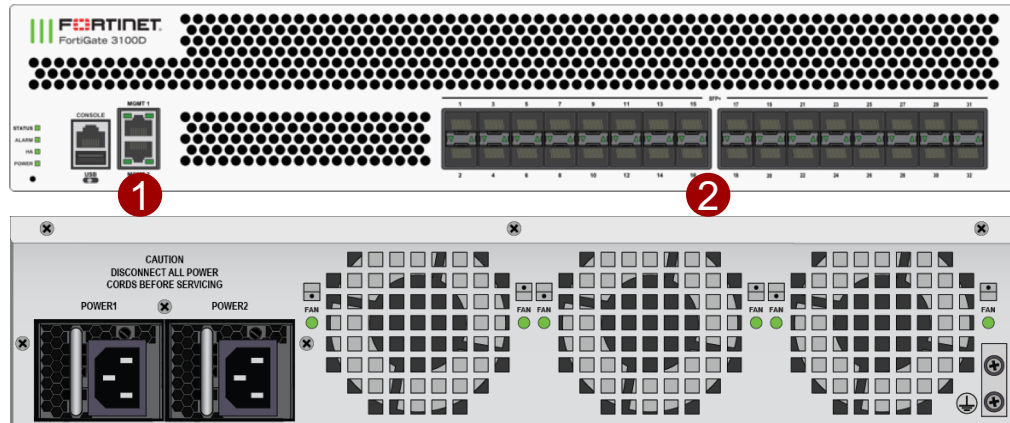
**400,000**  
New Sessions/Sec



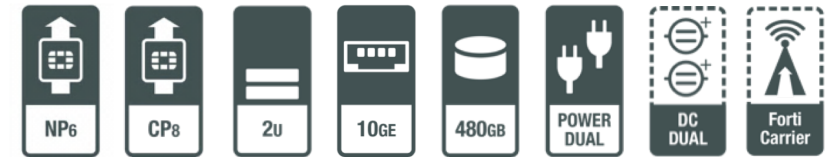
**Large Enterprise / Data Center / Service Provider**  
NGFW / ISFW / DCFW / CCFW



# FortiGate 3100D



- ① 2x GE RJ45 Management Ports
- ② 32x 10G SFP+/GE SFP Slots



**80 Gbps**  
Firewall throughput



**22 Gbps**  
IPS Throughput

**50 Million**  
Concurrent Sessions



**18 Gbps**  
NGFW Throughput

**400,000**  
New Sessions/Sec



**13 Gbps**  
Threat Protection Throughput

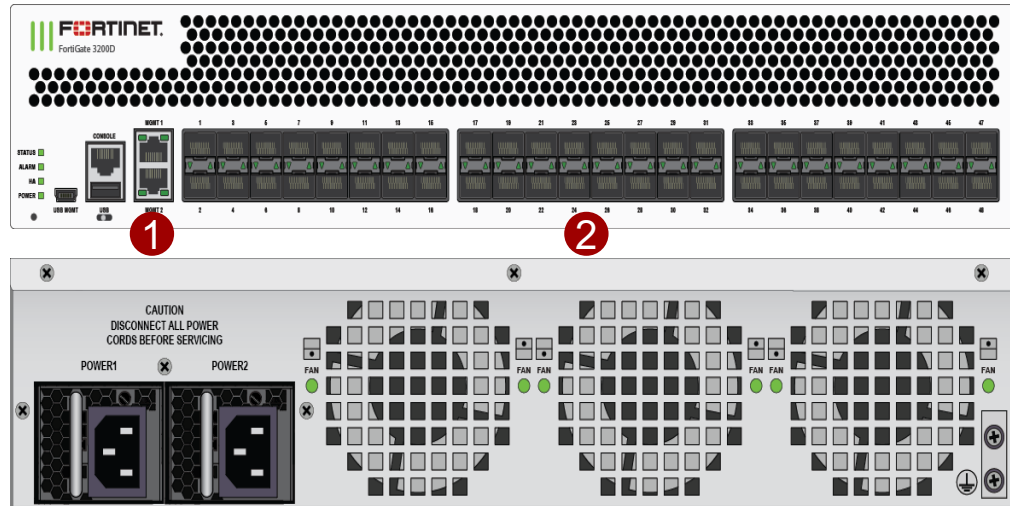


**Large Enterprise / Data Center / Service Provider**  
NGFW / ISFW / DCFW / CCFW

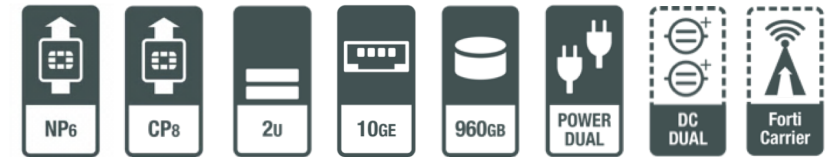




# FortiGate 3200D



- ① 2x GE RJ45 Management Ports
- ② 48x 10G SFP+/GE SFP Slots



**80 Gbps**  
Firewall throughput



**26 Gbps**  
IPS Throughput



**24 Gbps**  
NGFW Throughput



**15 Gbps**  
Threat Protection Throughput

**50 Million**  
Concurrent Sessions

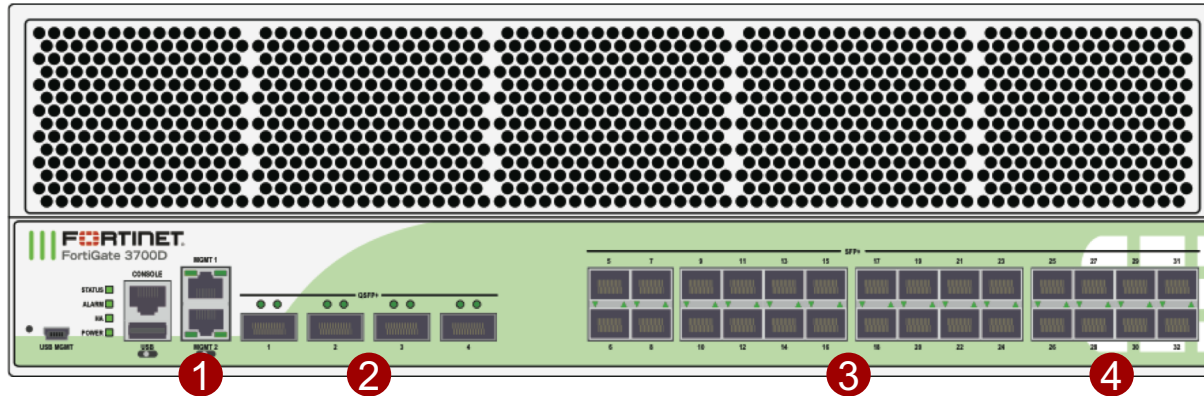
**400,000**  
New Sessions/Sec



**Large Enterprise / Data Center / Service Provider**  
NGFW / ISFW / DCFW / CCFW



# FortiGate 3700D/DX/-DC



- ① 2 x GE RJ45 Management Ports
- ② 4 x 40GE QSFP Slots
- ③ 20 x 10GE SFP/+ Slots
- ④ 8 ultra-low latency 10GE SFP+ Slots



**160 Gbps**

Firewall throughput



**28 Gbps**

IPS Throughput



**20 Gbps**

NGFW Throughput



**13 Gbps**

Threat Protection Throughput

**50 Million**

Concurrent Sessions

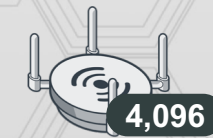
**480,000**

New Sessions/Sec

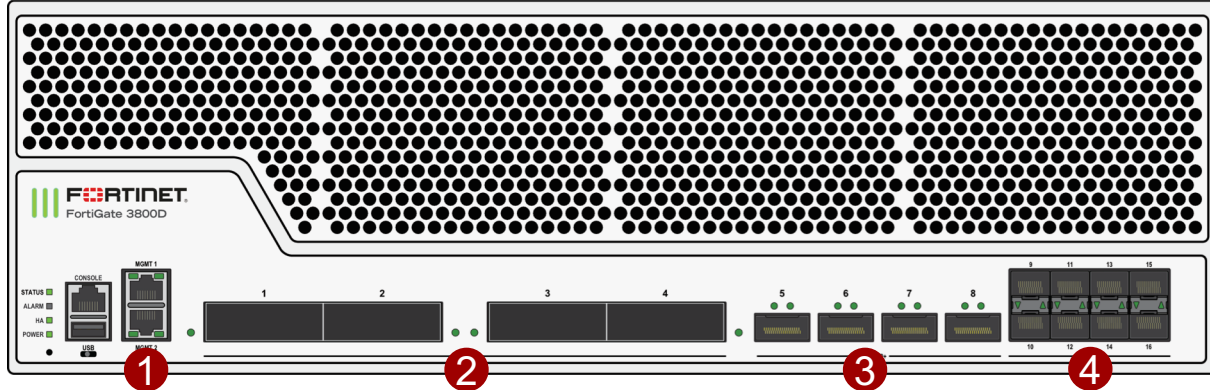


**Large Enterprise / Data Center / Service Provider**

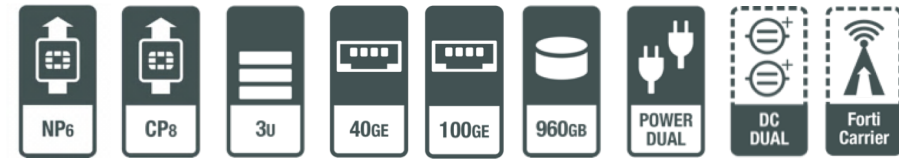
NGFW / ISFW / DCFW / CCFW



# FortiGate 3800D/-DC



- ① 2 x GE RJ45 Management Ports
- ② 4 x 100GE CFP2 Slots
- ③ 4 x 40GE QSFP+ Slots
- ④ 8 x 10GE SFP+ Slots



**320 Gbps**

Firewall throughput



**30 Gbps**

IPS Throughput



**20 Gbps**

NGFW Throughput



**13 Gbps**

Threat Protection Throughput

**95 Million**

Concurrent Sessions

**480,000**

New Sessions/Sec



**Large Enterprise / Data Center / Service Provider**

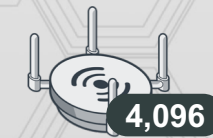
NGFW / ISFW / DCFW / CCFW



100,000



5,000

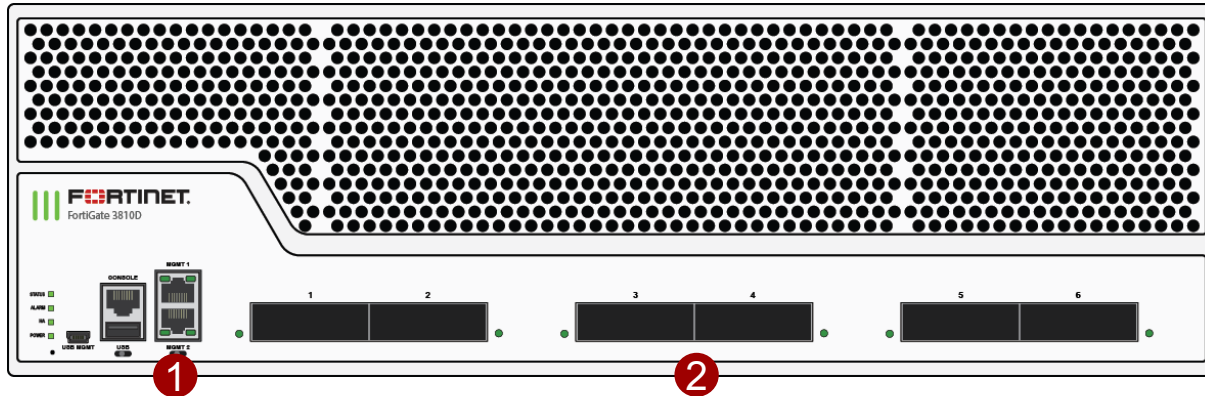


4,096

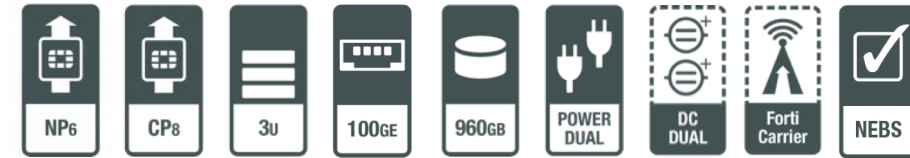


256

# FortiGate 3810D/-DC



- ① 2 x GE RJ45 Management Ports
- ② 6 x 100GE CFP2 Slots



**320 Gbps**

Firewall throughput



**30 Gbps**

IPS Throughput



**20 Gbps**

NGFW Throughput



**13 Gbps**

Threat Protection Throughput

**95 Million**

Concurrent Sessions

**480,000**

New Sessions/Sec



**Large Enterprise / Data Center / Service Provider**

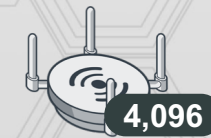
NGFW / ISFW / DCFW / CCFW



100,000



5,000

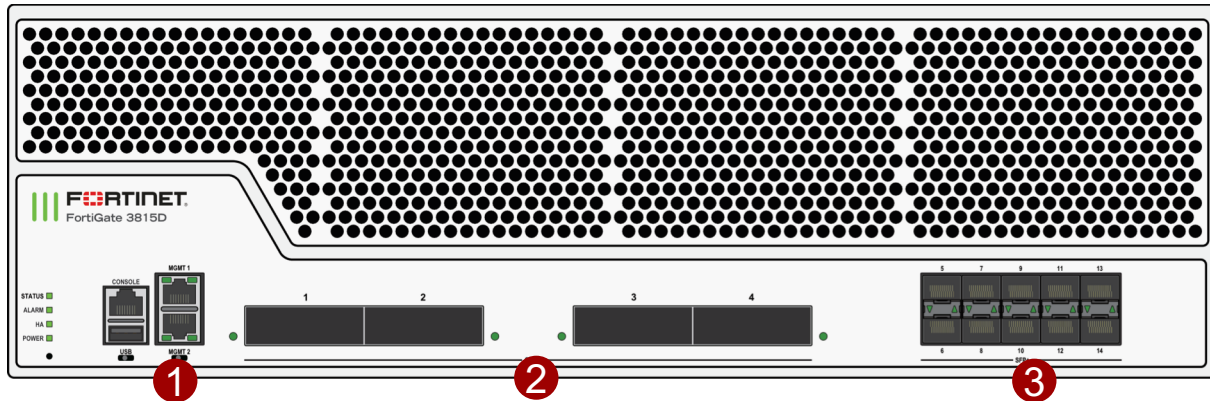


4,096



256

# FortiGate 3815D/-DC



- ① 2 x GE RJ45 Management Ports
- ② 4 x 100GE CFP2 Slots
- ③ 10 x 10GE SFP+ Slots



**320 Gbps**  
Firewall throughput



**30 Gbps**  
IPS Throughput



**20 Gbps**  
NGFW Throughput



**13 Gbps**  
Threat Protection Throughput

**95 Million**  
Concurrent Sessions

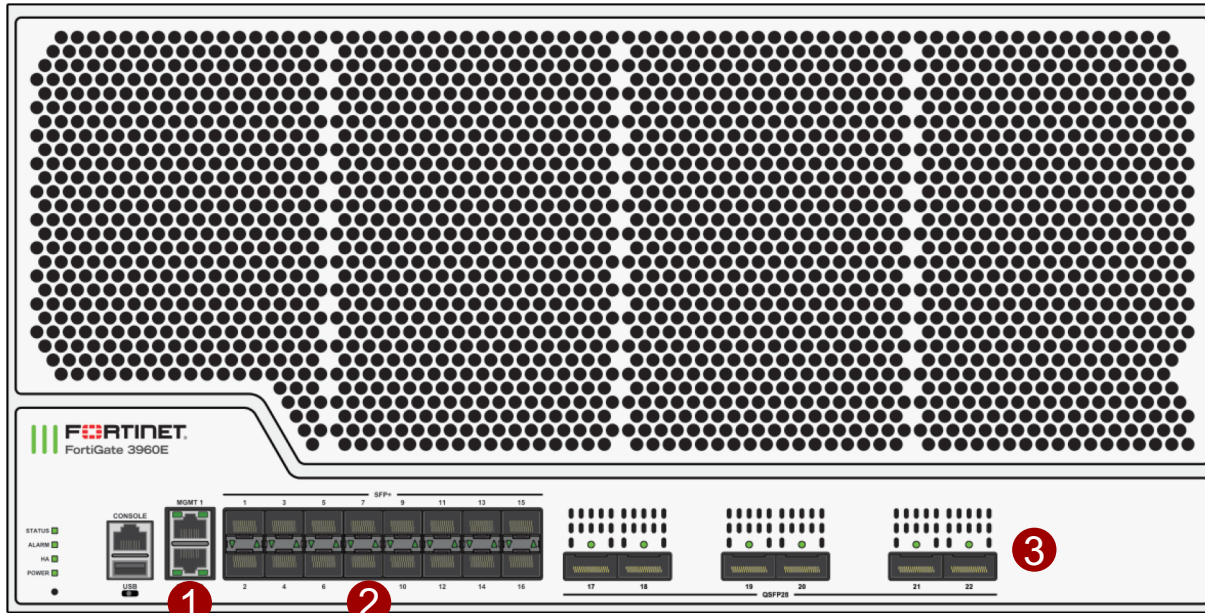
**480,000**  
New Sessions/Sec



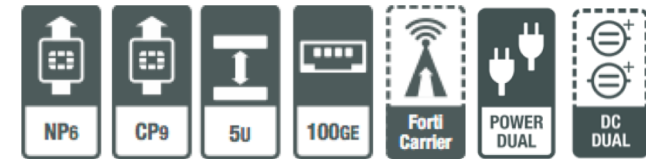
**Large Enterprise / Data Center / Service Provider**  
NGFW / ISFW / DCFW / CCFW



# FortiGate 3960E/-DC



- ① 2 x GE RJ45 Management Ports
- ② 16 x GE/10GE SFP/SFP+ Slots
- ③ 6x 100GE QSFP28 Slots



**620 Gbps**

Firewall throughput



**30 Gbps**

IPS Throughput



**Large Enterprise / Data Center / Service Provider**

NGFW / ISFW / DCFW / CCFW

**160 Million**

Concurrent Sessions



**22 Gbps**

NGFW Throughput

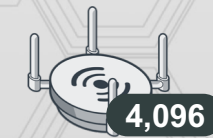
**550,000**

New Sessions/Sec

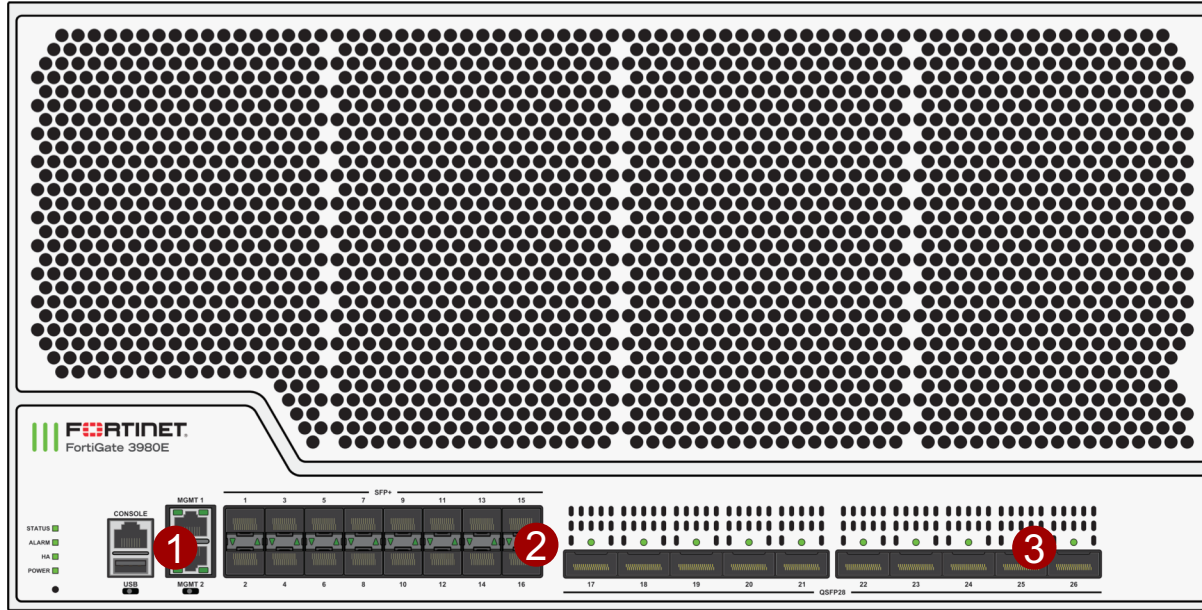


**13.5 Gbps**

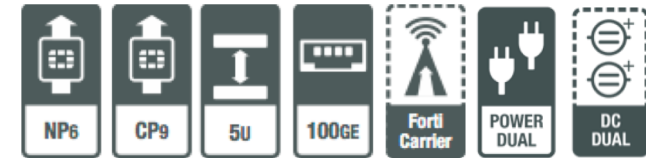
Threat Protection Throughput



# FortiGate 3980E/-DC



- ① 2 x GE RJ45 Management Ports
- ② 16 x GE/10GE SFP/SFP+ Slots
- ③ 10x 100GE QSFP28 Slots



**1.05 Tbps**

Firewall throughput



**32 Gbps**

IPS Throughput



**Large Enterprise / Data Center / Service Provider**

NGFW / ISFW / DCFW / CCFW

**160 Million**

Concurrent Sessions



**28 Gbps**

NGFW Throughput

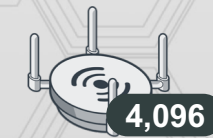
**550,000**

New Sessions/Sec



**18.5 Gbps**

Threat Protection Throughput



# FortiGate 5000 Series



## Security Appliances For Very Large Enterprises & Service Providers



 **FG-5144C with FG-5001D  
& FCTL-5903C**

- **Chassis-based platforms offer maximum performance, reliability, and scalability for high-speed service provider, large enterprise or telecommunications carrier networks.**
- **Flexibility enables protection of complex, multi-tenant cloud-based security-as-a-service and infrastructure-as-a-service environments.**

### Primary Benefits:

Native 10GE support for high speed requirements

ATCA-compliant architecture delivers carrier-grade performance, reliability, availability and serviceability

Chassis support two, six, or fourteen FortiGate-5000 series blades, allowing customization and scaling



# FortiGate 5000-Series Bundles

- Standard Based ATCA System
- Fully Redundant – Hot swappable blades, power supplies and fans



	FG-5060-Base	FG-5060-Full	FG 5144C-Base	FG 5144C-Full
Firewall Throughput	160 Gbps	400 Gbps	160 Gbps	960 Gbps
Concurrent Sessions	46 Million	115 Million	46 Million	276 Million
New Sessions/Sec	1.13 Million	2.82 Million	1.13 Million	6.78 Million
IPS (HTTP)	36 Gbps	90 Gbps	36 Gbps	216 Gbps

\* Based on sum of individual Security Blades, not as a controller-based system.

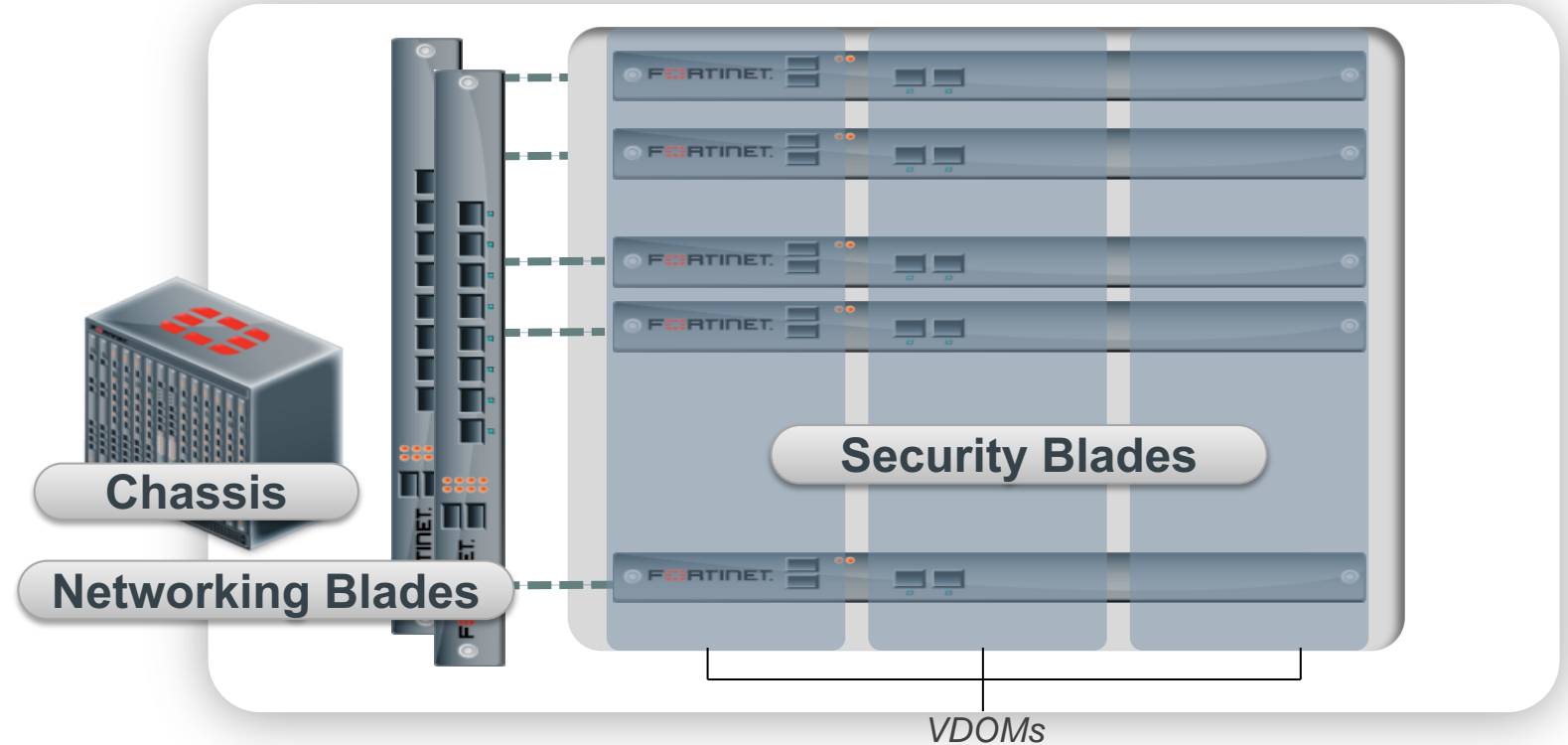
# Load Distribution & Virtualization

## Most flexible chassis based solution in the market

Ease of Maintenance – hot swappable components

Supports full hardware redundancy

Supports various Inter and Intra HA configurations



### Clustering

Scales Traffic processing capacity linearly. Interoperates with external devices

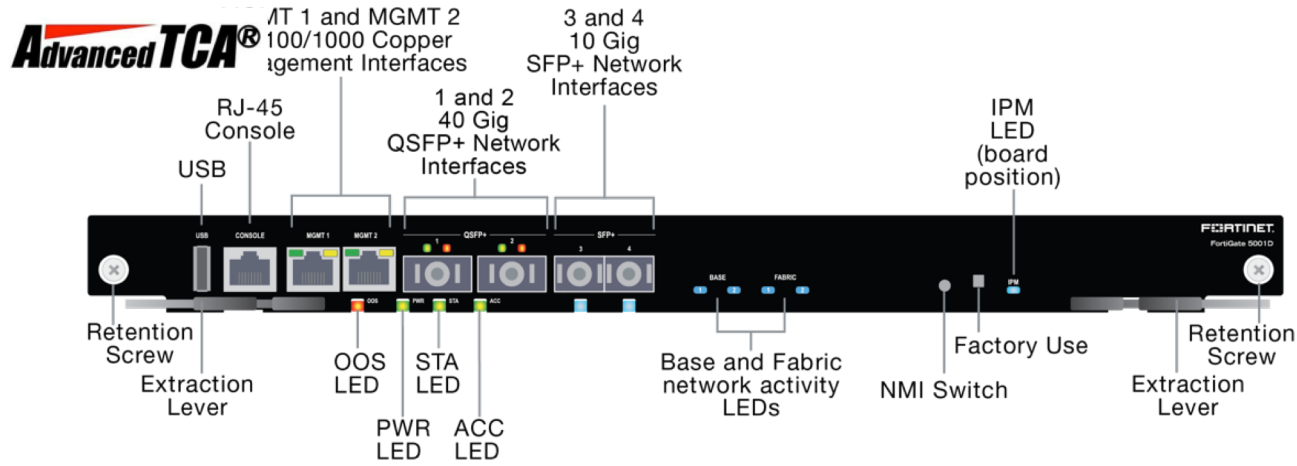
### Virtualization

Facilitates virtualized security components on FortiGate blades

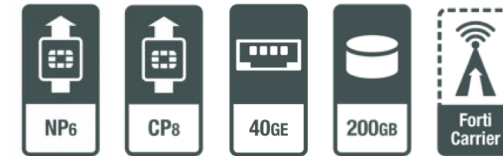
# FortiGate 5000 Series: Comparison

	FG-5001C	FG-5001D	FG-5001E
<b>Firewall</b> (1518/512/64 byte UDP)	40 / 40 / 40 Gbps	80 / 80 / 455 Gbps	80 / 80 / 50 Gbps
<b>Concurrent Sessions</b>	29.5 Mil	23 Mil	40 Mil
<b>New Sessions/Sec</b>	210,000	565,000	640,000
<b>IPSec VPN</b>	17 Gbps	25 Gbps	45 Gbps
<b>IPS (HTTP)</b>	9.8 Gbps	18 Gbps	25 Gbps
<b>Interfaces</b>	2x 10GE SFP+, 2x GE RJ45	2x 40GE QSFP+, 2x 10GE SFP+, 2x GE RJ45	2x 40GE QSFP+, 2x 10GE SFP+, 2x GE RJ45
<b>Storage</b>	128 GB	200 GB	-
<b>Variants</b>	-	-	-

# FortiGate 5001D



- ① 2x 40GE slots
- ② 2x 10GE slots
- ③ 2x GE RJ45 MGMT ports
- ④ Back plane connectivity : 2x base backplane 1Gbps, 4x fabric backplane 10/40Gbps



**80 Gbps**

Firewall throughput



**13 Gbps**

IPS Throughput



**Data Center / Service Provider**

DCFW /CCFW

**23 Million**

Concurrent Sessions



**10 Gbps**

NGFW Throughput

**565,000**

New Sessions/Sec



**7.7 Gbps**

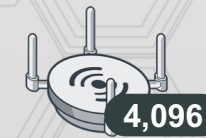
Threat Protection Throughput



20,000



5,000

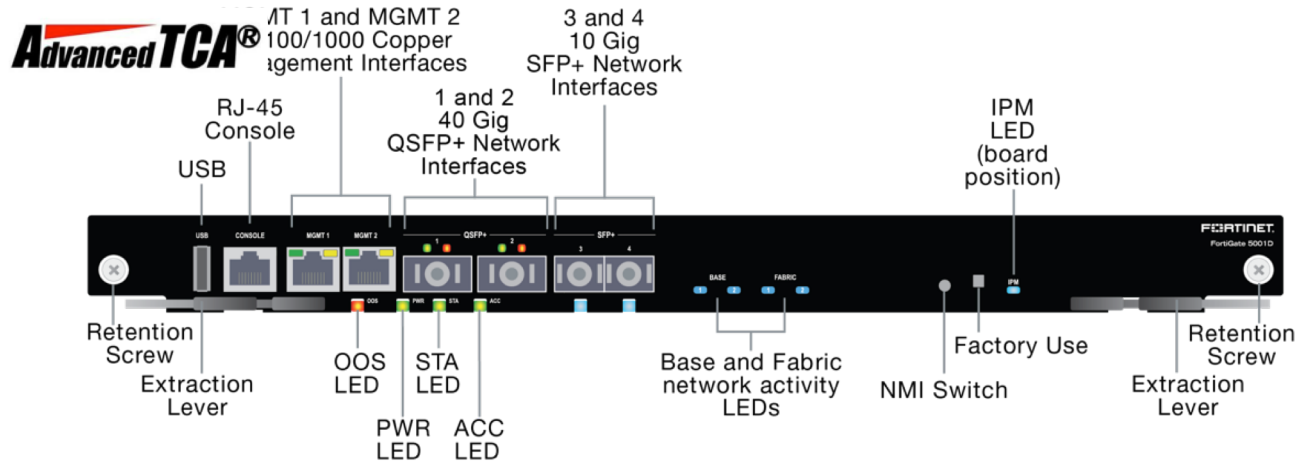


4,096

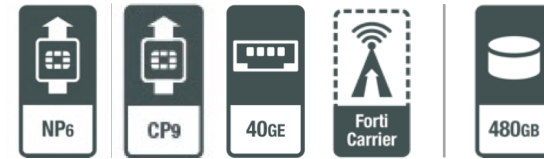


Yes

# FortiGate 5001E/5001E1



- ① 2x 40GE slots
- ② 2x 10GE slots
- ③ 2x GE RJ45 MGMT ports
- ④ Back plane connectivity : 2x base backplane 1Gbps, 4x fabric backplane 10/40Gbps



**80 Gbps**

Firewall throughput



**18 Gbps**

IPS Throughput



**Data Center / Service Provider**

DCFW /CCFW

**40 Million**

Concurrent Sessions



**15 Gbps**

NGFW Throughput

**640,000**

New Sessions/Sec



**13.5 Gbps**

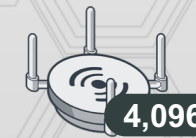
Threat Protection Throughput



20,000



5,000

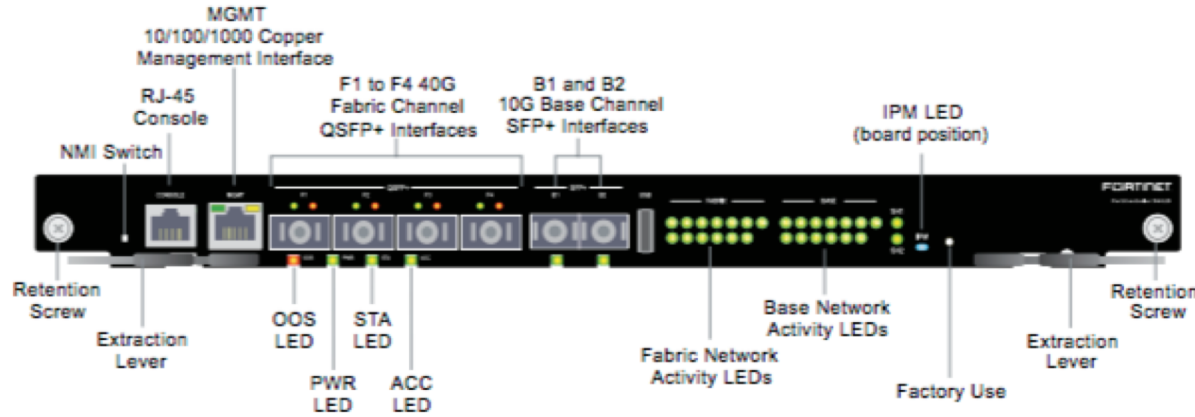


4,096

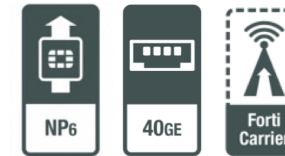


Yes

# FortiController 5902D



- ① 4 x 40 GE QSFP+
- ② 2 x 10GE SFP+
- ③ 1 x GE RJ45 Ports



**80 Gbps**

Firewall throughput



**11 Gbps**

IPS Throughput



**Data Center / Service Provider**

DCFW /CCFW

**50 Million**

Concurrent Sessions



**10 Gbps**

NGFW Throughput

**155,000**

New Sessions/Sec



**6.1 Gbps**

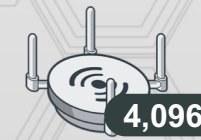
Threat Protection Throughput



20,000



5,000

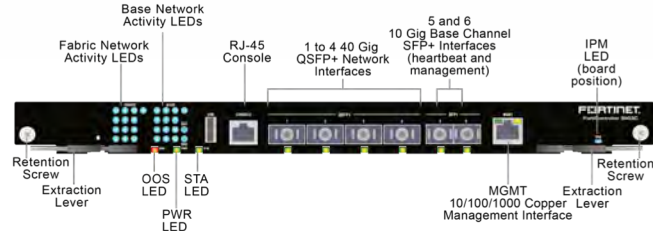


4,096

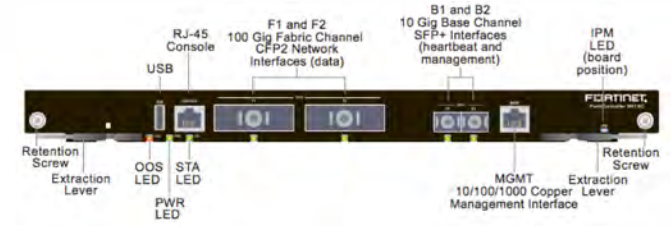


N/A

# FortiController 5903C/5913C



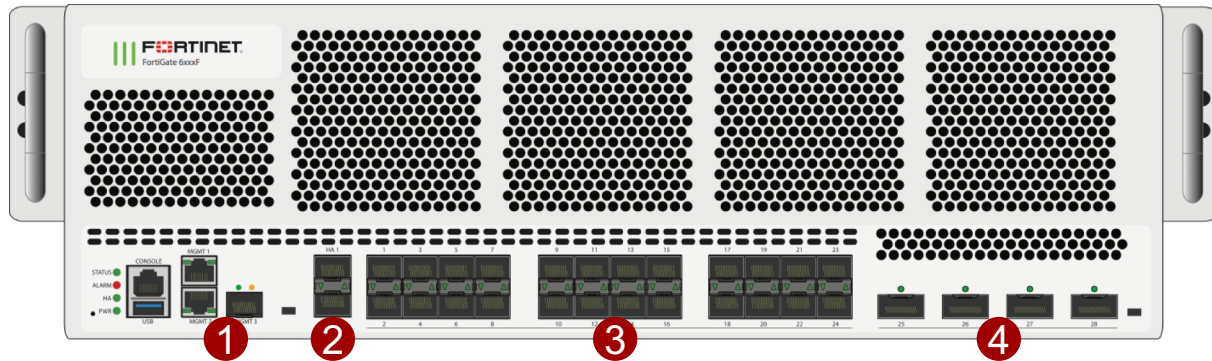
- ① 4x 40 GE QSFP+
- ② 2x 10 GE SFP+
- ③ 1x GE RJ45



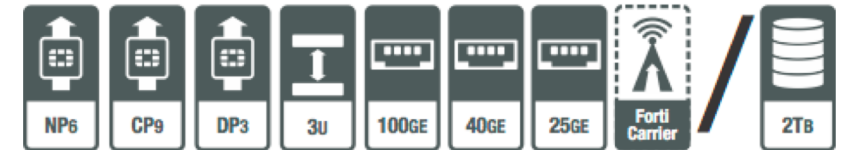
- ① 2x 100 GE CFP2
- ② 2x 10 GE SFP+
- ③ 1x GE RJ45

	FCTRL-5903C	FCTRL-5913C
Maximum Traffic Throughput	120 Gbps	200 Gbps
Concurrent Sessions	135 Million	135 Million
New Sessions/Second (TCP)	3.2 Million	3.6 Million

# FortiGate 6300/6301F



- ① 2 x GE RJ45, 1x 10 GE SFP+ Management Ports
- ② 2 x 10 GE SFP+ HA Slots
- ③ 24x 1/10/25 GE SFP/SFP+/SFP28 Slots
- ④ 4x 40/100 GE QSFP+/QSFP28 Slots



**239 Gbps**

Firewall throughput



**110 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW / CCFW

**120 Million**

Concurrent Sessions



**90 Gbps**

NGFW Throughput

**2 Million**

New Sessions/Sec



**60 Gbps**

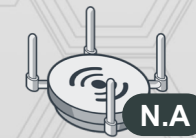
Threat Protection Throughput



20,000



100,000



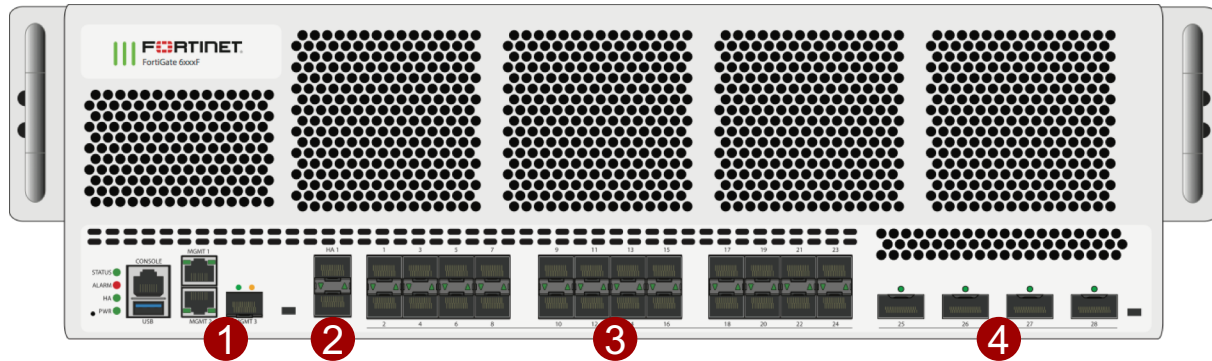
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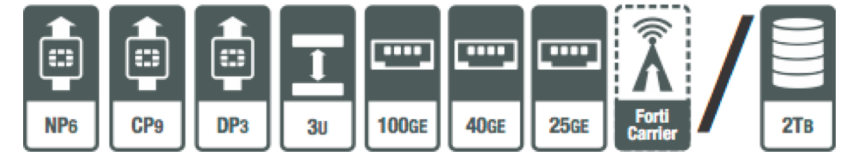
N.A



# FortiGate 6500/6501F



- ① 2 x GE RJ45, 1x 10 GE SFP+ Management Ports
- ② 2 x 10 GE SFP+ HA Slots
- ③ 24x 1/10/25 GE SFP/SFP+/SFP28 Slots
- ④ 4x 40/100 GE QSFP+/QSFP28 Slots



**239 Gbps**

Firewall throughput

**200 Million**

Concurrent Sessions

**3 Million**

New Sessions/Sec



**170 Gbps**

IPS Throughput



**150 Gbps**

NGFW Throughput



**100 Gbps**

Threat Protection Throughput



**Large Enterprise / Data Center**

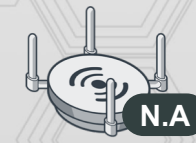
NGFW / ISFW / DCFW / CCFW



**20,000**



**100,000**

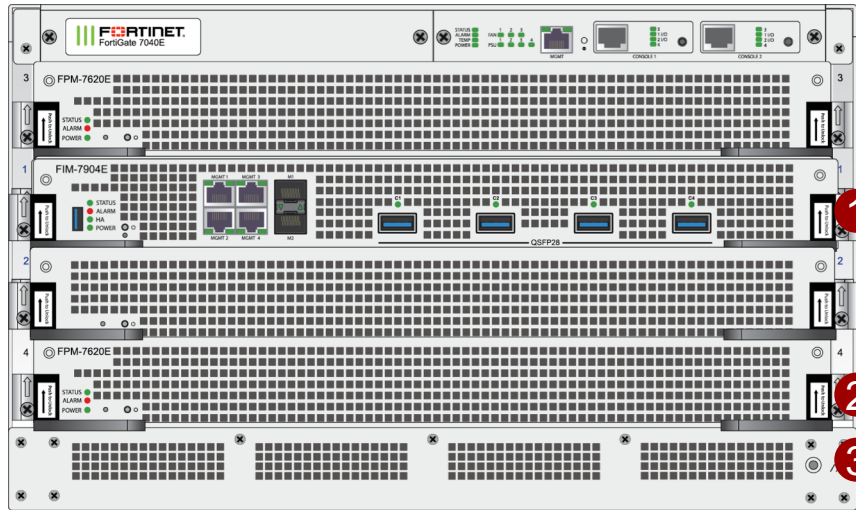


**N.A**

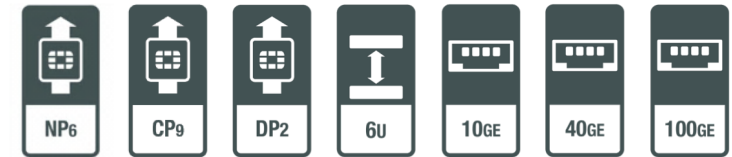


**N.A**

# FortiGate 7030E



- ① 1 x FIM
- ② 2 x Processing Module Slots
- ③ 3 (+1 optional) Hot Swappable Redundant PS



**115 Gbps**

Firewall throughput



**60 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW / CCFW

**160 Million**

Concurrent Sessions



**50 Gbps**

NGFW Throughput

**900,000**

New Sessions/Sec



**35 Gbps**

Threat Protection Throughput



20,000



5,000

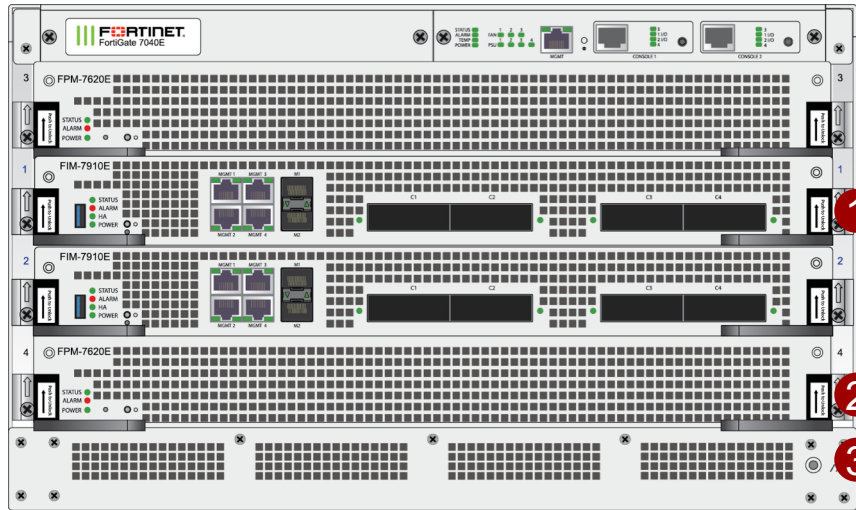


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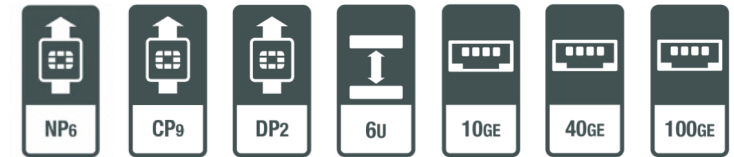


N.A

# FortiGate 7040E



- ① 2 x I/O Module Slots
- ② 2 x Processing Module Slots
- ③ 3 (+1 optional) Hot Swappable Redundant PS



**315 Gbps**

Firewall throughput



**60 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW / CCFW

**160 Million**

Concurrent Sessions



**50 Gbps**

NGFW Throughput

**950,000**

New Sessions/Sec



**40 Gbps**

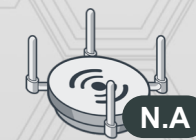
Threat Protection Throughput



20,000



5,000

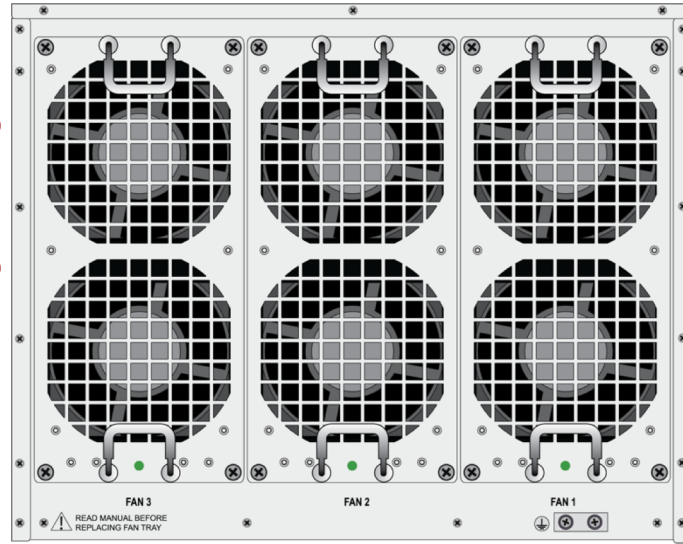
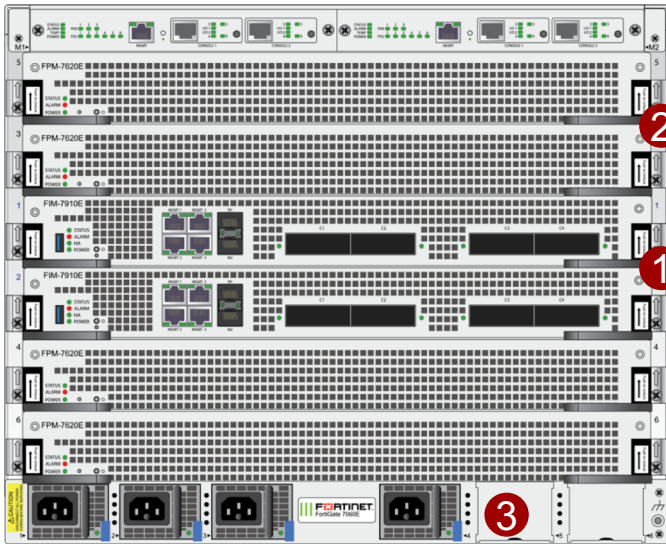


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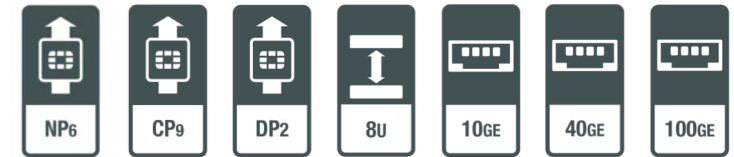


N.A

# FortiGate 7060E\*



- ① 2 x I/O Module Slots
- ② 2 +2 optional Processing Module Slots
- ③ 4 +2 optional) Hot Swappable Redundant PS



**630 Gbps**

Firewall throughput



**120 Gbps**

IPS Throughput



**Large Enterprise / Data Center**

NGFW / ISFW / DCFW / CCFW

**320 Million**

Concurrent Sessions



**100 Gbps**

NGFW Throughput

**1.8 Million**

New Sessions/Sec



**80 Gbps**

Threat Protection Throughput



20,000



5,000



N.A



N.A

# FortiGate 7040E & 7060E Bundle

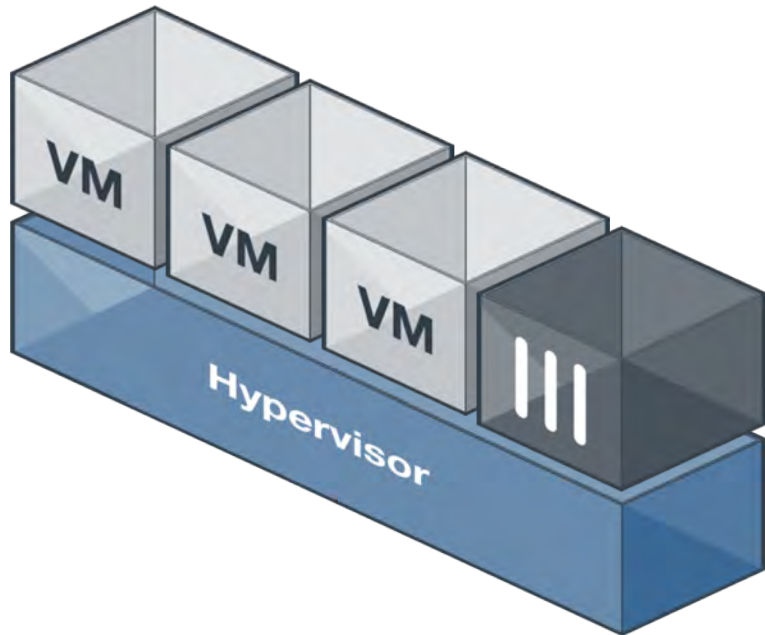
FG-7040E	FPM-7620E	FIM-7901E	FIM-7904E	FIM-7910E	FIM-7920E
<b>Network Interfaces</b>	-	32x GE/10 GE SFP/+	8x 40 GE QSFP+	4x 100 GE CFP2	4x 100 GE QSFP28
<b>Base Channel Interfaces</b>	-	2x 10 GE SFP+	2x 10 GE SFP+	2x 10 GE SFP+	2x 10 GE SFP+
<b>Management Interfaces</b>	-	4x GE RJ45	4x GE RJ45	4x GE RJ45	4x GE RJ45
<b>FG-7040E-8</b>	2			Any 2 FIMs	
<b>FG-7060E-8</b>	2 (+2)*			Any 2 FIMs	

\* Optional 2 more FPMs, order separately.

# FortiGate Virtual Appliance Series



## Agile Security for Virtual Environments



 **FG-VM**

### Primary Benefits:

Increased visibility and security within virtualized infrastructure better protect critical resources

Ability to manage virtual appliances and physical appliances from a single pane of glass management platform reduces TCO

Comprehensive Hypervisor support

Feature-rich security and virtual networking support facilitate wide deployment and requirement options



# FortiGate-VM

	FG-VM00	FG-VM01/01V	FG-VM02/02V	FG-VM04/04V
vCPU (Min / Max)	1/1	1/1	1/2	1/4
Network Interface (Min /Max)	1/10	1/10	1/10	1/10
Memory (Min / Max)	1 GB / 2 GB	1 GB / 2 GB	1 GB / 4 GB	1 GB / 6 GB
Storage Support (Min/Max)	30 GB / 2TB	30 GB / 2TB	30 GB / 2TB	30 GB / 2TB
VDOM (Default/Max)**	1 / 1	1 / 10	10 / 25	10 / 50
Firewall (UDP, SR-IOV Enabled)	12 Gbps	12 Gbps	15 Gbps	28 Gbps
Concurrent Sessions	1.0 Mil	1.0 Mil	2.6 Mil	4.3 Mil
New Sessions/Sec	85,000	85,000	100,000	125,000
IPS (HTTP/Ent. Mix)	1 Gbps	1 Gbps	1.5 Gbps	3 Gbps
NGFW (Ent. Mix)	850 Mbps	850 Mbps	1.5 Gbps	2.5 Gbps
Threat Protection (Ent. Mix)	700 Mbps	700 Mbps	1.2 Gbps	2 Gbps

\* Performance metrics were observed using a DELL R740 (CPU Intel Xeon Platinum 8168 2.7 GHz, Intel X710 network adapters), running FOS v5.6.3. Tested with VMware vSphere 6.5 Enterprise Plus. SR-IOV is enabled. \*\* Not applicable to FG-VMxxV series as VDOMs are not supported.

# FortiGate-VM

	FG-VM08/08V	FG-VM16/16V	FG-VM32/32V	FG-VMUL/ULV
vCPU (Min / Max)	1/8	1/16	1/32	1/Unlimited
Network Interface (Min /Max)	1/10	1/10	1/10	1/10
Memory (Min / Max)	1 GB / 12 GB	1 GB / 24 GB	1 GB / 48 GB	1 GB / Unlimited GB
Storage Support (Min/Max)	32 GB / 2TB	32 GB / 2TB	32 GB / 2TB	32 GB / 2TB
VDOM (Default/Max)**	10/ 250	10/ 500	10/ 500	10/ 500
Firewall (UDP, SR-IOV Enabled)	33 Gbps	36 Gbps	50 Gbps	-
Concurrent Sessions	8.5 Mil	18 Mil	38 Mil	-
New Sessions/Sec	150,000	175,000	200,000	-
IPS (HTTP/Ent. Mix)	6 Gbps	12 Gbps	19 Gbps	-
NGFW (Ent. Mix)	4.5 Gbps	9 Gbps	16.5 Gbps	-
Threat Protection (Ent. Mix)	3.5 Gbps	7 Gbps	13 Gbps	-

\* Performance metrics were observed using a DELL R740 (CPU Intel Xeon Platinum 8168 2.7 GHz, Intel X710 network adapters), running FOS v5.6.3. Tested with VMware vSphere 6.5 Enterprise Plus. SR-IOV is enabled. \*\* Not applicable to FG-VMxxV series as VDOMs are not supported.



# FortiGate-VM

	FG-VM00	FG-VM01	FG-VM02	FG-VM04	FG-VM08	FG-VM16	FG-VM32	FG-VMUL
<b>Private Cloud Platforms</b>								
VMware								
Citrix								
Microsoft Hyper-V								
KVM								
Open Source Xen								
<b>Public Cloud Platforms</b>								
Amazon AWS								
Microsoft Azure								
Google Cloud Platform								

# Transceivers & Breakout Cables

Max Dist.	SFP (GE)	XFP (10GE)	SFP+ (10GE)	QSFP+ (40GE)	CFP2 (100GE)	QSFP28 (100GE)
10 M			SP-CABLE-ADASFP+			
100 M	FG-TRAN-GC FS-TRAN-GC			FG-TRAN-QSFP+SR FG-TRAN-QSFP+SR- BIDI (on OM3 MMF)	FG-TRAN-CFP2-SR10	FG-TRAN-QSFP28- SR4
150 M				FG-TRAN-QSFP+SR FG-TRAN-QSFP+SR- BIDI (on OM4 MMF)		
220 M	FG-TRAN-SX FR-TRAN-SX (62.5/125 micron MMF)		FS-TRAN-SFP+LRM			
300 M		FG-TRAN-XFPSR (OM3MMF)	FG-TRAN-SFP+SR FS-TRAN-SFP+SR			
500 M	FG-TRAN-SX FR-TRAN-SX (50/125 micron MMF)					
10 KM	FG-TRAN-LX FR-TRAN-LX	FG-TRAN-XFPLR	FG-TRAN-SFP+LR		FG-TRAN-CFP2-LR4	FG-TRAN-QSFP28- LR4
40 KM			FS-TRAN-SFP+ER			
90 KM	FR-TRAN-ZX					

# Transceivers & Breakout Cables

Max Dist.	SFP (GE)	XFP (10GE)	SFP+ (10GE)	QSFP+ (40GE)	CFP2 (100GE)
1 Meter Length				FG-TRAN-QSFP-4XSFP	FG-CABLE-SR10-SFP+
5 meter Length				FG-TRAN-QSFP-4SFP-5	FG-CABLE-SR10-SFP+5

# Transceivers

Models	Available Slots	Transceivers Shipped
<b>FG-80E Series</b>	2 SFP	NIL
<b>FG100D</b>	2 SFP	NIL
<b>FG140D/140D-POE/140D-POE-T1</b>	2 SFP	NIL
<b>FG-100EF</b>	8 SFP	NIL
<b>FG-140E/140E-POE</b>	2 SFP	NIL
<b>FG-200D/200D-POE/240D/240-POE</b>	2 SFP	NIL
<b>FG-280D-POE</b>	4 SFP	NIL
<b>FG-200E/201E</b>	4 SFP	NIL
<b>FG300D/400D/500D/600D</b>	4/8/8/8 SFP	2x Fiber SX SFP modules (1000BaseSX)
<b>FG-300E/301E</b>	16 SFP	2x Fiber SX SFP modules (1000BaseSX)
<b>FG-500E/501E</b>	2 SFP+ 8 SFP	2x Fiber SX SFP modules (1000BaseSX)

Models	Available Slots	Transceivers Shipped
<b>FG-600D</b>	2 SFP+ 8 SFP	2x Fiber SX SFP modules (1000BaseSX)
<b>FG-800D</b>	2 SFP+ 8 SFP	2x Fiber SX SFP modules (1000BaseSX)
<b>FG-900D/1000D</b>	2 SFP+ 16 SFP	NIL
<b>FG-1200D</b>	4 SFP/+ 16 SFP	NIL
<b>FG1500D</b>	8 SFP/+ 16 SFP	2x SFP+ (SR 10GE)
<b>FG-2000E</b>	6 SFP+	2x SFP+ (SR 10GE)
<b>FG-2500E</b>	10 SFP+ 2 SFP+ bypass	2x SFP+ (SR 10GE)

# Transceivers

Models	Available Slots	Transceivers Shipped
<b>FG-3000D</b>	16 SFP+	2x SFP+ (SR 10GE)
<b>FG-3100D</b>	32 SFP+	2x SFP+ (SR 10GE)
<b>FG-3200D</b>	48 SFP+	2x SFP+ (SR 10GE)
<b>FG-3700D/DX</b>	4 QSFP+, 20 SFP/+ 8 SFP+	2x SFP+ (SR 10GE)
<b>FG-3800D</b>	4 CFP2 4 QSFP+ 8 SFP+	2x SFP+ (SR 10GE) FG-CABLE-SR10-SFP+
<b>FG-3810D</b>	6 CFP2	NIL but include FG-CABLE-SR10-SFP+
<b>FG-3815D</b>	4 CFP2 10 SFP+	2x SFP+ (SR 10GE) FG-CABLE-SR10-SFP+

Models	Available Slots	Transceivers Shipped
<b>FG-3960E</b>	6 QSFP28 16 SFP+	2x SFP+ (SR 10GE)
<b>FG-3980E</b>	10 QSFP28 16 SFP+	2x SFP+ (SR 10GE)
<b>FG-5001C</b>	2 SFP+	2x SFP+ (SR 10GE)
<b>FG-5001D/5001E</b>	2 SFP+ 2 QSFP+	2x SFP+ (SR 10GE)
<b>FCTL-5903C</b>	2 SFP+ 4 QSFP+	2x SFP+ (SR 10GE)

# Power Adapters & Redundant Power Supplies

Models	Spare/Redundant Power Supplies Option
FG/FWF-20C, 30D	SP-FG20C-PA-XX
FG/FWF-30D-POE	SP-FG30D-POE-PDC
FG/FWF-30E, FG/FWF-50E, FG/FWF-51E	SP-FG30E-PA-XX
FG-52E, FG-50E-2R, FG-30E-3G4G	SP-FG52E-PA-XX
FG/FWF-40C, 60C, 60D,60D-3G4G, 60E, 61E, 90D, FG-70D	SP-FG60C-PDC
FG/FWF-60D-POE	SP-FG60D-POE-PDC
FG-80D	SP-FG80D-PDC
FG-60E-POE, FG-80- POE, 81E-POE	SP-FG80E-POE-PDC
FG/FWF-90D-POE, FG-70D-POE	SP-FG90D-POE-PDC
FG/FWF-92D, FG- 90/91E	SP-FG92D-PDC







Models	Spare/Redundant Power Supplies Option
FG-100E, 100EF, 140E	FRPS-100 (max 2 units)
FG-140E-POE	FRPS-740-FG (max 2 units)
FG-200D, 240D, 200E	FRPS-100 (max 2 units)
FG-200D/240D/280- POE	FRPS-740-FG (max 2 units)
FG-300C	SP-FG310B-RPS FRPS-100 (max 4 units)
FG-300D	FRPS-100 (max 2 units)
FG-300/301E & FG500/501E	SP-FG300E-PS (additional as option)
FG-400D, 500D	FRPS-100 (max 2 units)
FG-600C, 800C	SP-FG600C-PS (additional as option)
FG-600C-DC, FG- 800C-DC	SP-FG600C-DC-PS (additional as option)

# Power Adapters & Redundant Power Supplies

Models	Spare/Redundant Power Supplies Option
<b>FG600D</b>	FRPS-100 (max 2 units)
<b>FG-620B, 621B</b>	SP-FG620B-RPS
<b>FG-800D</b>	SP-FG600C-PS (additional as option)
<b>FG-1000C, FG-1000C-DC</b>	SP-FG600C-PS, SP-FG600C-DC-PS (spare)
<b>FG-900D/1000D</b>	SP-FXX1000D
<b>FG-1200D</b>	SP-FG1240B-PS
<b>FG-1240B, FG-1500D, FG-3040B, FG-3140B</b>	SP-FG1240B-PS (spare)
<b>FG-3000D, FG-3100D, FG-3240C, 3200D, FG-3600C</b>	SP-FG3600C-PS (spare)

Models	Spare/Redundant Power Supplies Option
<b>FG-3700D, FG-3700D-DC</b>	SP-FG3800D-PS, SP-FG3800D-DC-PS (spare)
<b>FG-3800D,3810D,3815D</b>	SP-FG3800D-PS (spare)
<b>FG-3810A, FG-3810A-DC</b>	SP-FG3810A-PS, SP-FG3810A-DC-PS (spare)
<b>FG-3950B, FG-3951B</b>	SP-FG3950B-PS (spare)
<b>FG-3960E</b>	FG-7040E-PS-AC (spare)
<b>FG-3980E</b>	FG-7040E-PS-DC (spare)
<b>FG-7030E</b>	FG-7040E-PS-AC
<b>FG-7040E</b>	FG-7040E-PS-DC
<b>FG-7060E</b>	FG-7060E-PS-AC

# Power Cords

<b>C14 Inlet</b>		SP-FGPCOR-US	SP-FGPCOR-UK	SP-FGPCOR-EU	SP-FGPCOR-AU
<b>*C6 Inlet</b>		SP-FG60CPCOR-US	SP-FG60CPCOR-UK	SP-FG60CPCOR-EU	SP-FG60CPCOR-AU
		<b>NEMA 5-15</b>	<b>BS 1363</b>	<b>CEE7 VII</b>	<b>AS/NZS 3112</b>
		Type B	Type G	Type C, E, F, K	Type I
					

[http://en.wikipedia.org/wiki/AC\\_power\\_plugs\\_and\\_sockets](http://en.wikipedia.org/wiki/AC_power_plugs_and_sockets)  
<http://www.worldstandards.eu/electricity/plug-voltage-by-country/>

\* For FG-60C and FG/FWF-40C, FG/FWF-60D, 60E & FG/FWF-90D



# Hard Disks

	SP-D1000	SP-D1TB	SP-D1TC	SP-D2TC	SP-D2TE	SP-D3TC	SP-D2000	SP-D2000A	SP-DFWB2T	SP-D960
FortiManager			1000C, 3000C	3000C gen2, 4000D		300E, 400E, 2000E, 3000F	1000D			3900E
FortiAnalyzer		4000B	1000C, 2000B	1000C Gen2 2000B Gen2, 3000D		400E, 1000E, 2000E, 3000E, 3500F	1000D	3500D		3900E
FortiMail			2000B, 3000C	2000B Gen2, 3000D	2000E, 3000E, 3200E		1000D			
FortiWeb	1000D		1000C, 3000C	3000D, 4000C, 4000D			1000D		3000E 4000E	
FortiDB			1000C, 2000B	3000D			1000D			
FortiAuthenticator			1000C, 3000B	3000D	2000E, 3000E		1000D			
FortiCache			1000C, 3000C	1000C Gen2, 3000D	3000E		1000D			
FortiSandbox				3000D	3000E		1000D			



# FortiOS 6.0

# FortiOS Software Evolution

	2005	2007	2009/Q1	2009/Q3	2010/Q1	2011/Q3
New Key functionalities	<b>V 2.8</b>	<b>V 3.0</b>	<b>V 4.0</b>	<b>V4.1</b>	<b>V 4.2</b>	<b>V 4.3</b>
	<ul style="list-style-type: none"> <li>• Antispam</li> </ul>	<ul style="list-style-type: none"> <li>• SSL VPN</li> <li>• IM/P2P mgmt</li> </ul>	<ul style="list-style-type: none"> <li>• DLP</li> <li>• WAN Opt.</li> <li>• SSL Proxy</li> <li>• App Control</li> </ul>	<ul style="list-style-type: none"> <li>• Wireless ctrl</li> <li>• IPv6 UTM</li> <li>• SQL Logging</li> </ul>	<ul style="list-style-type: none"> <li>• New GUI</li> <li>• Network VM</li> </ul>	<ul style="list-style-type: none"> <li>• Token Server</li> <li>• ICAP</li> </ul>

	2012/Q4	2014/Q2	2016/Q3	2017/Q1	2018/Q1	
New Key functionalities	<b>V 5.0</b>	<b>V 5.2</b>	<b>V 5.4</b>	<b>V 5.6</b>	<b>V 6.0</b>	
	<ul style="list-style-type: none"> <li>• Client reputation</li> <li>• Sandbox integration</li> <li>• Endpoint control</li> <li>• Device based policy</li> </ul>	<ul style="list-style-type: none"> <li>• FortiView</li> <li>• Deep Flow AV</li> <li>• Software performance optimization</li> </ul>	<ul style="list-style-type: none"> <li>• ATP Integration</li> <li>• SDN support</li> </ul>	<ul style="list-style-type: none"> <li>• Security Fabric Integration and Features</li> </ul>	<ul style="list-style-type: none"> <li>• Security Fabric Enhancements</li> <li>• Automation</li> </ul>	

# FortiOS V6.0

Configuration	Log & Report	Diagnostics	Monitoring	<b>Operation</b>	Systems Integration	Central Mgmt. and Provisioning	Cloud & SDN Integration
					Visibility	Automation	
Policy Objects	Device Identification	SSL inspection	Actions	<b>Policy and Control</b>	AAA	Compliance & Security Rating	
Anti-Malware	IPS & DoS	Application Control	Web Filtering	<b>Security</b>	Advanced Threat Protection (ATP)	Vulnerability Assessment	IOC Detection
Firewall	VPN	DLP	Email Filtering				
SD WAN	Explicit Proxy	IPv6	High Availability	<b>Networking</b>	Wireless Controller	Switch Controller	WAN Interface Manager
Routing/NAT	L2/Switching	Offline Inspection	Essential Network Services				
Physical Appliance (+SPU)	Virtual System	Hypervisor	Cloud	<b>Platform Support</b>	<b>Security Fabric</b>		

# FortiGuard Offerings on FortiGate

Components/ Services	Threat Protection Bundle	UTM Protection Bundle	Enterprise Protection Bundle	A-la Carte ONLY	FortiCare Contract
Application Control DB Internet Service / FortiFlow DB Client ID DB IP Geography DB Malicious URL DB URL Whitelist DB					
AV Database (multiple) Botnet domain DB Flow AV DB IP Reputation DB Mobile AV DB					
IPS DB					
Web Filtering Query Secure DNS Query					
Anti-Spam Query					
Content Disarm & Reconstruct Feature					
Virus Outbreak Prevention Query					

# FortiGuard Offerings on FortiGate

Components/ Services	Threat Protection Bundle	UTM Protection Bundle	Enterprise Protection Bundle	A-la Carte ONLY	FortiCare Contract
Security Rating DB					
Industrial DB (IPS and Application Control) Signatures					



# FortiAP Family Positioning

**FAP-U**

Universal



**Controller**



**Integrated**



**Cloud**  
3.2 Beta

**FAP**



Controller



**Integrated**



**Cloud**

**FAP-S**

Smart



Controller




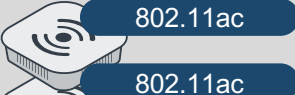
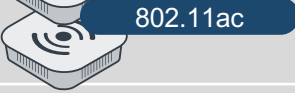







**Integrated**



**Cloud**



# FortiAP Family

4x4:4	Dual Radio Dual Band				 <b>FAP-421/423E</b>	
		3x3:3			 <b>FAP-320C</b>  <b>FAP-321C</b>	
2x2:2					 <b>FAP-222C</b> <b>FAP-224D</b>	 <b>FAP-221/223E</b>  <b>FAP-221/223C</b> <b>FAP-221B</b>
		1x1:1	Single Radio	 <b>FAP-C24JE</b> <b>FAP-C23JD</b>	 <b>FAP-28C</b> <b>FAP-25D</b> <b>FAP-21D</b>	
				 <b>FAP-14C</b> <b>FAP-11C</b>	 <b>FAP-112D</b>	
		<b>Wall Plate</b>	<b>Remote</b>	<b>Outdoor</b>	<b>Indoor</b>	

# FortiAP 11C

Remote | 802.11n | Single Radio | 1x1



① 2 x GE RJ45 Interface



Target Environment

Portable AP for traveller

Number of Antenna

1 internal

Rx / Tx

1x1

Radio 1

2.4 GHz b/g/n  
(150 Mbps)

Radio 2

-

PoE

-

# FortiAP 14C

Remote | 802.11n | Single Radio | 1x1



- ① 1 x FE WAN Interface
- ② 4 x FE Switch Interface



Target Environment

Remote office or SOHO desktop

Number of Antenna

1 internal

Rx / Tx

1x1

Radio 1

2.4 GHz b/g/n  
(150 Mbps)

Radio 2

-

PoE

-

# FortiAP 21D

Remote | 802.11n | Single Radio | 2x2



① 2 x FE Interface



Target Environment

FortiPresence Sensor or Travel/SOHO (USB powered)

Number of Antenna

2 internal

Rx / Tx

2x2

Radio 1

2.4 GHz b/g/n  
(300 Mbps)

Radio 2

-

PoE

-

# FortiAP 25C

Remote | 802.11n | Single Radio | 2x2



- ① 1 x GE RJ45 WAN Interface
- ② 4 x FE RJ45 Switch Interface



Target Environment

Hotels/Hospitality desktop

Number of Antenna

2 internal

Rx / Tx

2x2

Radio 1

2.4/5GHz a/b/g/n  
(300 mbps)

Radio 2

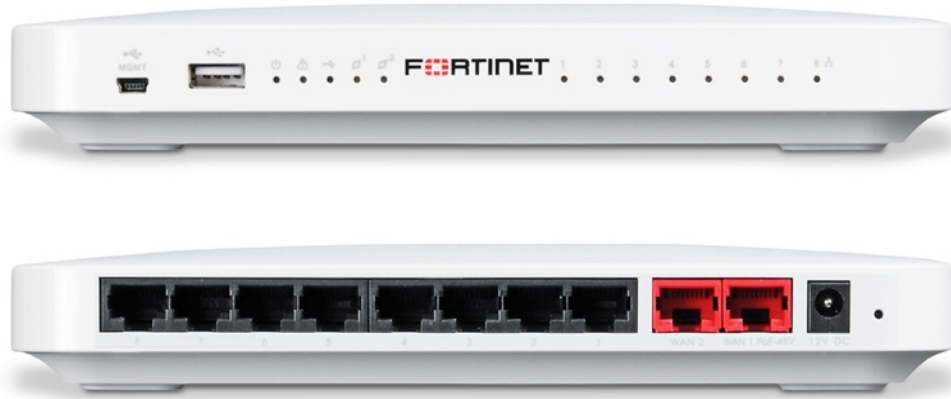
-

PoE

-

# FortiAP 28C

Remote | 802.11n | Single Radio | 2x2



- ① 2 x GE RJ45 WAN Interface
- ② 8 x GE RJ45 Switch Interface



**Target Environment**

Remote office or SOHO desktop

**Number of Antenna**

2 internal

**Rx / Tx**

2x2

**Radio 1**

2.4/5GHz a/b/g/n  
(300 mbps)

**Radio 2**

-

**PoE**

-

# FortiAP 221B

Indoor | 802.11n | Dual Radio | 2x2



① 1 x GE RJ45 Interface



**Target Environment**

Medium density indoor

**Number of Antenna**

4 internal

**Rx / Tx**

2x2

**Radio 1**

2.4 GHz b/g/n  
(300 Mbps)

**Radio 2**

2.4/5GHz a/b/g/n  
(300 Mbps)

**PoE**

802.3af

# FortiAP 221/223C

Indoor | 802.11ac | Dual Radio | 2x2



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



## FAP-221C

## FAP-223C

Target Environment	Medium density indoor	Medium density indoor
Number of Antenna	4 internal	4 External
Rx / Tx	2x2	2x2
Radio 1	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (300 Mbps)
Radio 2	5GHz a/b/g/n/ac (867 Mbps)	5GHz a/b/g/n/ac (867 Mbps)
PoE	802.3af	802.3af



# FortiAP 320/321C

Indoor | 802.11ac | Dual Radio | 3x3



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-320C

## FAP-321C

Target Environment	High density, streaming app, resilience	Medium density without resilience
Number of Antenna	6 internal	6 internal
Rx / Tx	3x3	3x3
Radio 1	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
Radio 2	5GHz a/n/ac (1300 Mbps)	5GHz a/n/ac (1300 Mbps)
PoE	802.3af	802.3af

# FortiAP 221/223E

Indoor | 802.11ac W2 | Dual Radio | 2x2



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



## FAP-221E

Target Environment	Medium density indoor
Number of Antenna	4 internal
Rx / Tx	2x2
Radio 1	2.4 GHz b/g/n (300 Mbps)
Radio 2	5GHz a/b/g/n/ac (867 Mbps)
PoE	802.3af

## FAP-223E

Target Environment	Medium density indoor
Number of Antenna	4 External
Rx / Tx	2x2
Radio 1	2.4 GHz b/g/n (300 Mbps)
Radio 2	5GHz a/b/g/n/ac (867 Mbps)
PoE	802.3af

# FortiAP 421/423E

Indoor | 802.11ac W2 | Dual Radio | 4x4



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-221C

## FAP-223C

Target Environment	High density, high performance indoor	High density, high performance indoor
Number of Antenna	8 internal	8 External
Rx / Tx	4x4	4x4
Radio 1	2.4 GHz b/g/n (600 Mbps)	2.4 GHz b/g/n (600 Mbps)
Radio 2	5GHz a/b/g/n/ac (1733 Mbps)	5GHz a/b/g/n/ac (1733 Mbps)
PoE	802.3at	802.3at

# FortiAP 112D

Outdoor | 802.11n | Single Radio | 1x1



① 2 x FE Interface with PoE pass-through.  
(1x PoE-PD, 1x PoE-PS)



Target Environment	Low density outdoor, POE pass-through for IP CCTV cameras.
Number of Antenna	1 internal
Rx / Tx	1x1
Radio 1	2.4 GHz b/g/n (300 Mbps)
Radio 2	-
PoE	802.3af

# FortiAP 224D

Outdoor | 802.11n | Dual Radio | 2x2



① 1 x GE RJ45 Interface



**Target Environment**

Medium density outdoor, IP66 rated

**Number of Antenna**

4 External (RP-SMA)

**Rx / Tx**

2x2

**Radio 1**

2.4 GHz b/g/n  
(300 Mbps)

**Radio 2**

5GHz a/n  
(300 Mbps)

**PoE**

802.3af

# FortiAP 222C

Outdoor | 802.11ac | Dual Radio | 2x2



① 1 x GE RJ45 Interface



Target Environment

High density Outdoor, IP67 rated

Number of Antenna

4 External (N-Type)

Rx / Tx

2 x 2

Radio 1

2.4 GHz b/g/n  
(300 Mbps)

Radio 2

5GHz a/n/ac  
(867 Mbps)

PoE

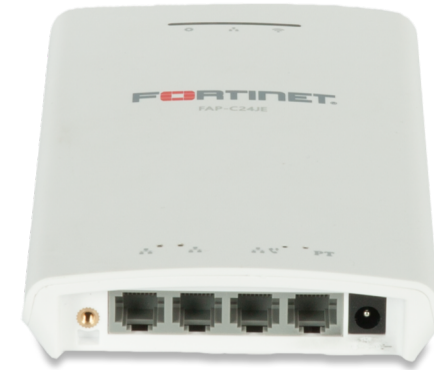
802.3at

# FortiAP C23JD/C24JE

Wall Plate | 802.11n/ac | 2x2



- ① 3x FE RJ45 (1x 802.3af PoE back, 2 front)



- ① 1x GE WAN/POE Uplink 2x RJ45 GE, 1x RJ45 GE POE-PS, 1x RJ45 pass-thru



## FAP-C23JD

## FAP-C24JE

Target Environment	Indoor Wall Plate AP for hotel and dorm rooms	Indoor Wall Plate AP for hotel and dorm rooms
Number of Antenna	2 Internal	4 Internal
Rx / Tx	2x2	2x2
Radio 1	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (300 Mbps)
Radio 2	-	5GHz a/n/ac (867 Mbps)
PoE	802.3af	802.3af

# Hardware Overview – FortiAP

## Remote

	FAP-11C	FAP-14C	FAP-21D	FAP-28C	FAP-25D
<b>Use Case</b>	Portable AP for traveller	Remote office or SOHO desktop	FortiPresence Sensor or Travel/SOHO (USB powered)	Remote office or SOHO desktop	Hotels/Hospitality desktop
<b>Form Factor</b>	Small, portable	Desktop	Small, portable	Desktop	Small, portable Powerstrip design
<b>Rx / Tx</b>	1x1	1x1	2x2	2x2	2x2
<b>Radio 1</b>	2.4 GHz b/g/n (150 Mbps)	2.4 GHz b/g/n (150 Mbps)	2.4 GHz b/g/n (300 Mbps)	2.4/5GHz a/b/g/n (300 mbps)	2.4/5GHz a/b/g/n (300 mbps)
<b>Radio 2</b>	-	-	-	-	-
<b>PoE</b>	NA	NA	NA	NA	NA
<b>Antennas</b>	1 internal	1 internal	2 internal	2 internal	2 internal
<b>Ethernet Ports</b>	1x GE RJ45 WAN 1x GE RJ45 LAN	1x FE WAN 4x FE LAN	2x FE RJ45	2x GE RJ45 WAN 8x GE RJ45 LAN	1x GE WAN 4x FE LAN
<b>Management</b>	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud



# Hardware Overview – FortiAP

## Indoor

	FAP-24D	FAP-221B	FAP-221C/223C*	FAP-320C	FAP-321C
<b>Use Case</b>	Low density indoor	Medium density indoor	Medium density indoor	high density 802.11ac, streaming app resilience	Medium density 802.11ac without resilience
<b>Form Factor</b>	Desktop	Smoke Detector, wall or ceiling mount	Smoke Detector, wall or ceiling mount	Wall or ceiling mount	Smoke Detector, wall or ceiling mount
<b>Rx / Tx</b>	2x2	2x2	2x2	3x3	3x3
<b>Radio 1</b>	2.4/5GHz a/b/g/n (300 mbps)	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
<b>Radio 2</b>	-	2.4/5GHz a/b/g/n (300 Mbps)	2.4/5GHz a/b/g/n/ac (867 Mbps)	5GHz a/n/ac (1300 Mbps)	5GHz a/n/ac (1300 Mbps)
<b>PoE</b>	802.3af	802.3af	802.3af	802.3af	802.3af
<b>Antennas</b>	2 internal	4 internal	4 internal / 4 external*	6 internal	6 internal
<b>Ethernet Interfaces</b>	1x GE WAN 4x FE LAN	1 x GE RJ45	1 x GE RJ45	2 x GE RJ45	1 x GE RJ45
<b>Management</b>	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud

# Hardware Overview – FortiAP Series

Indoor | 802.11ac W2

	FAP-221/223E	FAP-421/423E
<b>Form Factor</b>	Indoor, round	Indoor, rectangular
<b>Rx / Tx</b>	2x2	4x4
<b>Radio 1</b>	5GHz a/n/ac (867 Mbps)	5GHz a/n/ac (1733 Mbps)
<b>Radio 2</b>	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (600 Mbps)
<b>PoE</b>	802.3af	802.3at
<b>Antennas</b>	221E: 4 internal 223E: 4 external	421E: 8 internal 423E: 8 external
<b>Ethernet Interfaces</b>	1 x GE RJ45	2 x GE RJ45
<b>Management</b>	FortiGate, FortiCloud	FortiGate, FortiCloud









# Hardware Overview – FortiAP

## Outdoor

	FAP-112D	FAP-224D	FAP-222C
<b>Use Case</b>	Low density outdoor, POE pass-through for IP CCTV cameras.	Medium density outdoor	High density 802.11ac outdoor
<b>Form Factor</b>	Outdoor IP55 rated, wall or pole mount	Outdoor IP66 rated, wall or pole mount	Outdoor IP67 rated, wall or pole mount
<b>Rx / Tx</b>	1x1	2x2	2x2
<b>Radio 1</b>	2.4/5GHz a/b/g/n (150 Mbps)	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (300 Mbps)
<b>Radio 2</b>	-	5GHz a/n (300 Mbps)	5GHz a/n/ac (867 Mbps)
<b>PoE</b>	802.3af	802.3af	802.3at
<b>Antennas</b>	1 internal	4 external (RP-SMA )	4 external (N-Type)
<b>Ethernet Interfaces</b>	2x FE RJ45	1 x GE RJ45	1 x GE RJ45
<b>Management</b>	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud

# FortiAP Family Overview

## S-Series

		Resiliency		
4x4:4	Dual Radio		 <b>FAP-S422E</b>	 <b>FAP-S421/423E</b>
			 <b>FAP-S322CR</b>	 <b>FAP-S321/323CR</b>
3x3:3	Single Radio		 <b>FAP-S322C</b>	 <b>FAP-S321/323C</b>
				 <b>FAP-S311/313C</b>
2x2:2	Dual Radio			 <b>FAP-S221/223E</b>
		Wall Plate	Outdoor	Indoor

# FortiAP S311/313C

Indoor | 802.11ac | Single Radio | 3x3



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



## FAP-S311C

## FAP-S313C

Target Environment

Medium density indoor with Security

Medium density indoor with Security

Number of Antenna

3 Internal

3 External

Rx / Tx

3x3

3x3

Radio 1

2.4/5GHz b/g/n (450 Mbps)  
or a/n/ac dual-band (1300 Mbps)

2.4/5GHz b/g/n (450 Mbps)  
or a/n/ac dual-band (1300 Mbps)

Radio 2

-

-

PoE

802.3af

802.3af

# FortiAP S221/223E

Indoor | 802.11ac W2 | Dual Radio | 2x2



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-S221E

## FAP-S223E

Target Environment

Medium density indoor with Security

Medium density indoor with Security

Number of Antenna

4 Internal + Bluetooth

4 External + Bluetooth

Rx / Tx

2x2

2x2

Radio 1

2.4 GHz b/g/n (300 Mbps)

2.4 GHz b/g/n (300 Mbps)

Radio 2

5 GHz a/n/ac (867 Mbps)

5 GHz a/n/ac (867 Mbps)

PoE

802.3af

802.3af

# FortiAP S321/323C

Indoor | 802.11ac | Dual Radio | 3x3



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



## FAP-S321C

## FAP-S313C

Target Environment	Medium density indoor with Security	Medium density indoor with Security
Number of Antenna	6 Internal	6 External
Rx / Tx	3x3	3x3
Radio 1	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1300 Mbps)
Radio 2	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
PoE	802.3af	802.3af

# FortiAP S321/323CR

Indoor | 802.11ac | Dual Radio | 3x3



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-S321CR

## FAP-S323CR

Target Environment	Medium density indoor with Security	Medium density indoor with Security
Number of Antenna	6 Internal	6 External
Rx / Tx	3x3	3x3
Radio 1	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1300 Mbps)
Radio 2	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
PoE	802.3af	802.3af



# FortiAP S421/423E

Indoor | 802.11ac W2 | Dual Radio | 4x4



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-U321EV

## FAP-U323EV

Target Environment	High density, high performance indoor	High density, high performance indoor
Number of Antenna	8 internal + 1 Bluetooth	8 External + 1 Bluetooth
Rx / Tx	4x4	4x4
Radio 1	2.4 GHz b/g/n (800 Mbps)	2.4 GHz b/g/n (800 Mbps)
Radio 2	5GHz a/b/g/n/ac (1733 Mbps)	5GHz a/b/g/n/ac (1733 Mbps)
PoE	802.3at	802.3at

# FortiAP S322C/CR

Outdoor | 802.11ac | Dual Radio | 3x3



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-S322C

## FAP-S322CR

Target Environment	Outdoor	Outdoor
Number of Antenna	6 External	6 External
Rx / Tx	3x3	3x3
Radio 1	5 GHz 802.11a/n/ac (1300 Mbps)	5 GHz 802.11a/n/ac (1300 Mbps)
Radio 2	2.4 GHz 802.11b/g/n (450 Mbps)	2.4 GHz 802.11b/g/n (450 Mbps)
PoE	802.3at	802.3at

# FortiAP S422E

Outdoor | 802.11ac | Dual Radio | 4x4



① 2 x GE RJ45 Interface



Target Environment

Outdoor

Number of Antenna

8 External

Rx / Tx

4x4

Radio 1

5 GHz 802.11a/n/ac  
(1733 Mbps)

Radio 2

2.4 GHz 802.11b/g/n  
(600Mbps)

PoE

802.3at

# Hardware Overview – FortiAP S-Series

## Indoor

	FAP-S311/313C	FAP-S321/323C	FAP-S321/323CR	FAP-S421/423E
<b>Form Factor</b>	Smoke Detector Form Factor	Smoke Detector Form Factor	Smoke Detector Form Factor	Indoor, rectangular
<b>Rx / Tx</b>	3x3	3x3	3x3	4x4
<b>Radio 1</b>	2.4/5GHz b/g/n (450 Mbps) or a/n/ac dual-band (1300 Mbps)	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1733 Mbps)
<b>Radio 2</b>	-	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (600 Mbps)
<b>PoE</b>	802.3af	802.3af	802.3af	802.3at
<b>Antennas</b>	311C: 3 internal 313C: 3 external	321C: 6 internal 323C: 3 external	321CR: 6 internal 323CR: 3 external	421E: 8 internal 423E: 8 external
<b>Ethernet Interfaces</b>	1 x GE RJ45	1 x GE RJ45	2 x GE RJ45	2 x GE RJ45
<b>Management</b>	FortiCloud, FortiGate	FortiCloud, FortiGate	FortiCloud, FortiGate	FortiCloud, FortiGate






# Hardware Overview – FortiAP S-Series

## Outdoor

	FAP-S322C	FAP-S322CR	FAP-S422E
<b>Form Factor</b>	High density 802.11ac outdoor	High density 802.11ac outdoor	High density 802.11ac outdoor
<b>Rx / Tx</b>	3x3	3x3	4x4
<b>Radio 1</b>	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1300 Mbps)	5GHz a/n/ac concurrent (1733 Mbps)
<b>Radio 2</b>	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (600 Mbps)
<b>PoE</b>	802.3at	802.3at	802.3at
<b>Antennas</b>	6 N-type External	6 N-type External	8 N-type External
<b>Ethernet Interfaces</b>	1 x GE RJ45	2 x GE RJ45	2 x GE RJ45
<b>Management</b>	FortiCloud, FortiGate	FortiCloud, FortiGate	FortiCloud, FortiGate

# FortiAP Family Overview

## U-Series

4x4:4	Dual Radio + BT/BLE	Resiliency		 <span>802.11ac W2</span> <b>FAP-U422EV</b>	 <span>802.11ac W2</span> <b>FAP-U421/423EV</b>
					 <span>802.11ac W2</span> <b>FAP-U321/323EV</b>
			 <span>802.11ac</span> <b>FAP-U24JEV</b>	 <span>802.11ac W2</span> <b>FAP-U221/223EV</b>	
			<b>Wall Plate</b>	<b>Outdoor</b>	<b>Indoor</b>

# FortiAP U221/223EV

Indoor | 802.11ac W2 | Dual Radio | 2x2



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



## FAP-U221E

## FAP-U223E

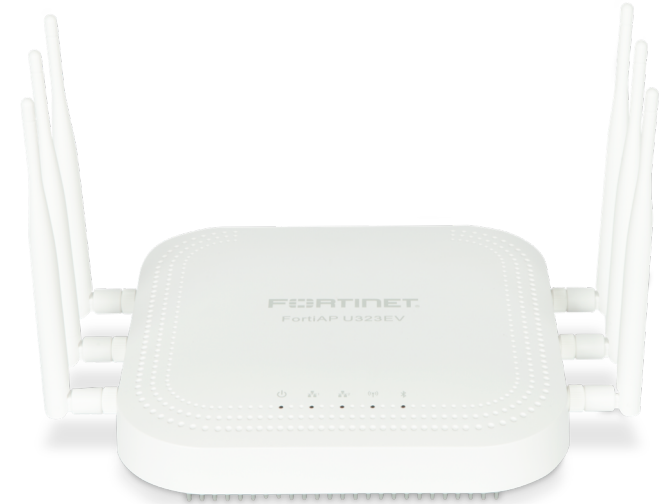
Target Environment	Medium density indoor with Security	Medium density indoor with Security
Number of Antenna	4 Internal + Bluetooth	4 External + Bluetooth
Rx / Tx	2x2	2x2
Radio 1	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (300 Mbps)
Radio 2	5 GHz a/n/ac (867 Mbps)	5 GHz a/n/ac (867 Mbps)
PoE	802.3af/at	802.3af/at

# FortiAP U321/323EV

Indoor | 802.11ac W2 | Dual Radio | 3x3



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-U321EV

## FAP-U323EV

Target Environment

High density and performance Indoor AP

High density and performance Indoor AP

Number of Antenna

6 Internal + 1 Bluetooth

6 External+ 1 Bluetooth

Rx / Tx

3x3

3x3

Radio 1

2.4 GHz b/g/n  
(450 Mbps)

2.4 GHz b/g/n  
(450 Mbps)

Radio 2

5GHz a/n/ac  
(2340 Mbps)

5GHz a/n/ac  
(2340 Mbps)

PoE

802.3at/af

802.3at/af



# FortiAP U421/423EV

Indoor | 802.11ac W2 | Dual Radio | 4x4



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



## FAP-U321EV

## FAP-U323EV

Target Environment	High density, high performance indoor	High density, high performance indoor
Number of Antenna	8 internal + 1 Bluetooth	8 External + 1 Bluetooth
Rx / Tx	4x4	4x4
Radio 1	2.4 GHz b/g/n (800 Mbps)	2.4 GHz b/g/n (800 Mbps)
Radio 2	5GHz a/b/g/n/ac (3460 Mbps)	5GHz a/b/g/n/ac (3460 Mbps)
PoE	802.3at	802.3at

# Hardware Overview – FortiAP U-Series

Indoor

	FAP-U321/323EV	FAP-U321/323EV	FAP-U421/423EV
<b>Form Factor</b>	Indoor, rectangular	Indoor, rectangular	Indoor, rectangular
<b>Rx / Tx</b>	2x2	3x3	4x4
<b>Radio 1</b>	5GHz a/n/ac (867 Mbps)	5GHz a/n/ac (2340Mbps)	5GHz a/n/ac (3460 Mbps)
<b>Radio 2</b>	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (800 Mbps)
<b>PoE</b>	802.3af/at	802.3af/at	802.3af/at
<b>Antennas</b>	4 internal / external + BT	6 internal / external + BT	8 internal / external + BT
<b>Ethernet Interfaces</b>	1 x GE RJ45	2 x GE RJ45	2 x GE RJ45

# FortiAP Power Adaptors

	Power Supply Type	Power supply shipped with unit	(Spare) Power supply order SKU	GPI-115 Support	GPI-130 Support
FAP-11C	AC	(Integrated power supply)	N/A	-	-
FAP-14C	AC		SP-FAP14C-PA-XX	-	-
FAP-21D	AC	(USB powered)	N/A	-	-
FAP-24D	PoE 802.3af	-	SP-FG20C-PA-XX		-
FAP-25D	AC	(Integrated power supply)	N/A	-	-
FAP-28C	AC		SP-FG20C-PA-XX	-	-
FAP-112B	PoE Proprietary		SP-FAP112B-PA (includes PoE injector) + SP-ADAPTORPLUG-01-XX	-	-
FAP-112D	PoE Proprietary		SP-FAP222B-PA (includes PoE injector) + SP-ADAPTORPLUG-01-XX	-	-
FAP-210B	PoE 802.3af		SP-FAP220B-PA-XX		-
FAP-220B	PoE 802.3af		SP-FAP220B-PA-XX		-

# FortiAP Power Adaptors

	Power Supply Type	Power supply shipped with unit	(Spare) Power supply order SKU	GPI-115 Support	GPI-130 Support
FAP-221B/223B	PoE 802.3af	-	SP-FAP221B-PA + SP-ADAPTORPLUG-01-XX		-
FAP-221C/223C	PoE 802.3af	-	SP-FG20C-PA-XX		-
FAP-221E/223E	PoE 802.3af	-	SP-FAP200-PA-XX		-
FAP-222B/222C	PoE 802.3at/POE Proprietary		SP-FAP222B-PA (includes PoE injector) + SP-ADAPTORPLUG-01-XX	-	-
FAP-222E	PoE 802.3at		TBC	-	
FAP-224D	PoE 802.3af		SP-FAP221B-PA + SP-ADAPTORPLUG-01-XX		-
FAP-224E	PoE 802.3at	-	N/A	-	
FAP-320B	PoE 802.3af	-	SP-FG20C-PA-XX		-
FAP-320C	PoE 802.3af	-	SP-FG20C-PA-XX		-
FAP-321C	PoE 802.3af	-	SP-FG20C-PA-XX		-
FAP-421E/423E	PoE 802.3at	-	SP-FAP400-PA-XX	-	

# FortiAP S-Series Power Adaptors

	Power Supply Type	Power supply shipped with unit	(Spare) Power supply order SKU	GPI-115 Support	GPI-130 Support
FAP-S221E/223E	PoE 802.3af	-	SP-FAP200-PA-XX		-
FAP-S311C/313C	PoE 802.3at	-	SP-FG20C-PA-XX		(to use USB port)
FAP-S321C/323C FAP-S321CR/323C	PoE 802.3at	-	SP-FG20C-PA-XX	-	
FAP-S322C/S322CR	PoE 802.3at	(PoE injector + Power Adapter)	TBC	-	
FAP-S421E/423E	PoE 802.3at	-	SP-FAP400-PA-XX	-	
FAP-S422E	PoE 802.3at	(PoE injector + Power Adapter)	TBC	-	

# FortiAP U-Series Power Adaptors

	Power Supply Type	Power supply shipped with unit	(Spare) Power supply order SKU	GPI-115 Support	GPI-130 Support
FAP-U321EV/323EV	PoE 802.3af PoE 802.3at	No	SP-FAP200-PA-XX	-	
FAP-U421EV/423EV	PoE 802.3af PoE 802.3at	No	SP-FAP400-PA-XX	-	

# FortiAP C-Series Power Adaptors

	Power Supply Type	Power supply shipped with unit	(Spare) Power supply order SKU	GPI-115 Support	GPI-130 Support
FAP-C220C/225C	PoE 802.3af	-	-	-	-
FAP-C23JD	PoE 802.3af (wall Plate)	-	-	-	-
FAP-C24JE	PoE 802.3af (wall Plate)	-	-	-	-



# **FortiSwitch**



# Introducing FortiSwitch



Access level Gigabit Switches with ease of use and low cost of ownership

 FSW-1xxD/E Series



 FSW-2xxD/E Series



 FSW-4xxD Series



 FSW-5xxD Series


















- Outstanding price, performance, and scalability to organizations with diverse operational needs.

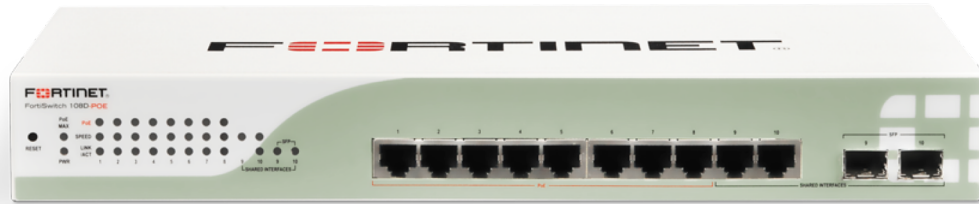
## Primary Benefits:

- ✓ High Port Density
- ✓ Integrated Power Over Ethernet
- ✓ Connect Access Points, Peripherals, Cameras, Phones
- ✓ Create an integrated, secure network

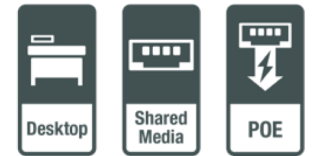
# FortiSwitch Family

48 ports		 FSW-248E-FPOE	 FSW-448D-FPOE	 FSW-548D-FPOE		
		 FSW-248D/E-POE	 FSW-448D-POE			
		 FSW-248D	 FSW-448D	 FSW-548D	 FSW-1048D	
32 ports					 FSW-3032D	
24 ports		 FSW-124E-FPOE	 FSW-224D-FPOE	 FSW-424D-FPOE	 FSW-524D-FPOE	
		 FSW-124E-POE	 FSW-224E-POE	 FSW-424D-POE		
		 FSW-124E	 FSW-224E	 FSW-424D	 FSW-524D	 FSW-1024D
8 ports		 FSW-108E-FPOE				
		 FSW-108D/E-POE				
		 FSW-108E				
	<b>100 Series</b>	<b>200 Series</b>	<b>400 Series</b>	<b>500 Series</b>	<b>1000/3000 Series</b>	
	+ 2x GE SFP uplink (except FS-124E/-POE/-FPOE)	+ 4x GE SFP uplink	+ 2x10 GE SFP+ uplink	+ 4x 10 GE SFP+ and 2x 40 GE stacking	<b>Data Center Switches</b>	

# FortiSwitch 108D-POE



- ① 8x PoE GE RJ45
- ② 2x pairs Shared GE ports

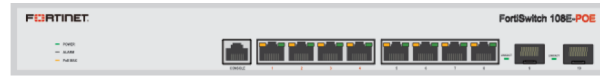


Switch Capacity	20 Gbps
MAC Address Storage	16,000
Network Latency (64bytes)	<1 $\mu$ s
VLANs Supported	4096
Max LAG Size	up to 8 ports
PoE Power Budget	75W
Power Supply	Single PS

# FortiSwitch 108E Series



- ① 7x GE RJ45 Ports
- ② 1x GE POE-PD RJ45 Ports
- ③ 2x GE SFP slots



- ① 4x GE RJ45 Ports
- ② 4x GE RJ45 POE+ Ports
- ③ 2x GE SFP slots



- ① 8x GE RJ45 POE+ Ports
- ② 2x GE SFP slots



	FS-108E	FS-108E-POE	FS-108E-FPOE
Switch Capacity	20 Gbps	20 Gbps	20 Gbps
MAC Address Storage	8K	8K	8K
Network Latency (64bytes)	4 ms	4 ms	4 ms
VLANs Supported	4K	4K	4K
Max LAG Size	up to 8 ports	up to 8 ports	up to 8 ports
PoE Power Budget	-	65 W	130 W
Power Supply	Single PS/PoE-PD	Single PS	Single PS

# FortiSwitch 124E Series



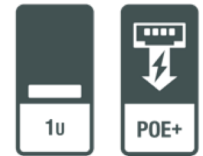
- ① 24 x GE RJ45 Ports
- ② 4x GE SFP slots



- ① 12x GE RJ45 Ports
- ② 12x GE RJ45 POE+ Ports
- ③ 4x GE SFP slots

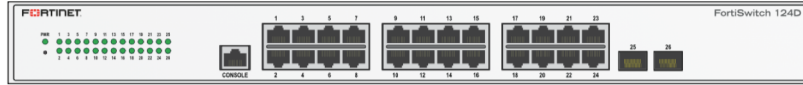


- ① 24x GE RJ45 POE+ Ports
- ② 4x GE SFP slots

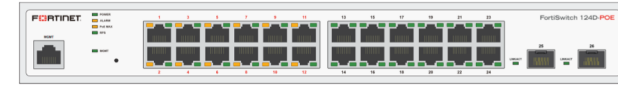


	FS-124E	FS-124E-POE	FS-124E-FPOE
Switch Capacity	56 Gbps	56 Gbps	56 Gbps
MAC Address Storage	8K	8K	8K
Network Latency (64bytes)	4 ms	4 ms	4 ms
VLANs Supported	4K	4K	4K
Max LAG Size	up to 8 ports	up to 8 ports	up to 8 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Single PS	Single PS	Single PS

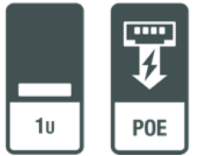
# FortiSwitch 124D Series



- ① 24x GE RJ45 Ports
- ② 2x GE SFP Slots



- ① 12x GE RJ45 Ports
- ② 12x GE RJ45 PoE Ports
- ③ 2x GE SFP Slots



	FS-124D	FS-124D-POE
Switch Capacity	52 Gbps	52 Gbps
MAC Address Storage	8,000	16,000
Network Latency (64bytes)	<1 μs	<1 μs
VLANs Supported	4K	4K
Max LAG Size	12	12
PoE Power Budget	-	100 W
Power Supply	Single PS	Single PS, Optional FRPS-740

# FortiSwitch 224D/E Series



- ① 24x GE RJ45 Ports
- ② 4x GE SFP Slots



- ① 12 x GE RJ45 Ports
- ② 12 x GE RJ45 POE+ Ports
- ③ 4x GE SFP slots

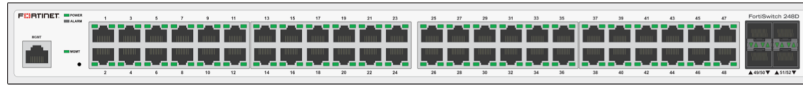


- ① 24 x GE RJ45 POE/POE+ Ports
- ② 4x GE SFP slots



	FS-224E	FS-224E-POE	FS-224D-FPOE
Switch Capacity	56 Gbps	56 Gbps	56 Gbps
MAC Address Storage	16K	16K	16K
Network Latency (64bytes)	<1 μs	<1 μs	<1 μs
VLANs Supported	4K	4K	4K
Max LAG Size	up to 8 ports	up to 12 ports	up to 12 ports
PoE Power Budget	N/A	180 W	370 W
Power Supply	Dual Redundant PS	Single PS, Optional FRPS-740	Single PS, Optional FRPS-740

# FortiSwitch 248D Series



- ① 48 x GE RJ45 Ports
- ② 4x 10GE SFP+ slots



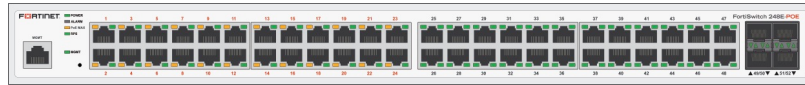
- ① 24 x GE RJ45 Ports
- ② 24 x GE RJ45 POE Ports
- ③ 2x GE SFP slots



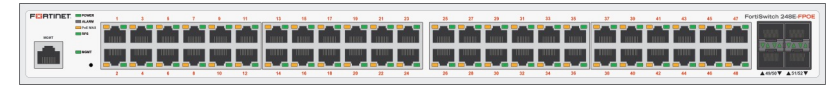
	FS-248D	FS-248D-POE
Switch Capacity	104 Gbps	104 Gbps
MAC Address Storage	16K	16K
Network Latency (64bytes)	<1 μs	<1 μs
VLANs Supported	4K	4K
Max LAG Size	up to 12 ports	up to 12 ports
PoE Power Budget	-	370 W
Power Supply	Single PS	Single PS



# FortiSwitch 248E Series



- ① 24x GE RJ45 Ports
- ② 24x GE PoE/PoE+ Ports
- ③ 4x GE SFP Slots



- ① 48 x GE PoE/PoE+ RJ45 Ports
- ② 4x GE SFP slots



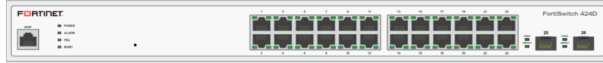
## FS-248E-POE

## FS-248E-FPOE

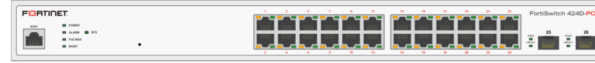
Switch Capacity	104 Gbps
MAC Address Storage	16K
Network Latency (64bytes)	<1 μs
VLANs Supported	4K
Max LAG Size	up to 8 ports
PoE Power Budget	370 W
Power Supply	Single PS, Optional FRPS-740

Switch Capacity	104 Gbps
MAC Address Storage	16K
Network Latency (64bytes)	<1 μs
VLANs Supported	4K
Max LAG Size	up to 12 ports
PoE Power Budget	740 W
Power Supply	Single PS, Optional FRPS-740

# FortiSwitch 424D Series



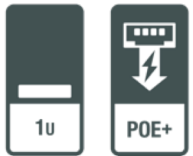
- ① 24x GE RJ45 Ports
- ② 2x 10GE SFP+ slots



- ① 24x GE RJ45 POE/POE+ Ports
- ② 2x 10GE SFP slots

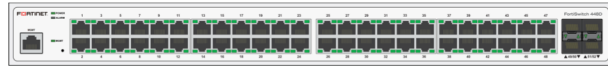


- ① 24x GE RJ45 POE/POE+ Ports
- ② 2x 10GE SFP slots



	FS-424D	FS-424D-POE	FS-424D-FPOE
Switch Capacity	88 Gbps	88 Gbps	88 Gbps
MAC Address Storage	16K	16K	16K
Network Latency (64bytes)	<1 μs	<1 μs	<1 μs
VLANs Supported	4K	4K	4K
Max LAG Size	up to 12 ports	up to 12 ports	up to 12 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Dual Redundant PS	Single PS, Optional FRPS-740	Single PS, Optional FRPS-740

# FortiSwitch 448D Series



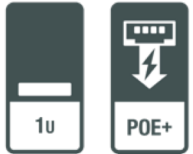
- ① 48x GE RJ45 Ports
- ② 4x 10GE SFP+ slots



- ① 48x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP slots

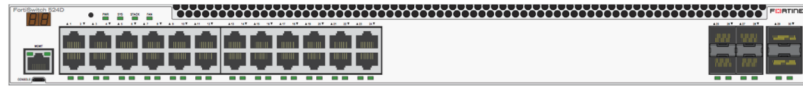


- ① 48x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP slots

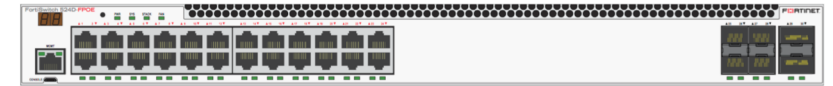


	FS-448D	FS-448D-POE	FS-448D-FPOE
Switch Capacity	176 Gbps	176 Gbps	176 Gbps
MAC Address Storage	16K	16K	16K
Network Latency (64bytes)	<1 μs	<1 μs	<1 μs
VLANs Supported	4K	4K	4K
Max LAG Size	up to 12 ports	up to 12 ports	up to 12 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Dual Redundant PS	Single PS, Optional FRPS-740	Dual Redundant PS

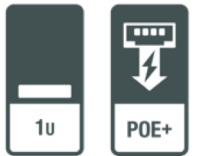
# FortiSwitch 524D Series



- ① 24x GE RJ45 Ports
- ② 4x 10GE SFP+ slots
- ③ 2x 40GE stacking interface

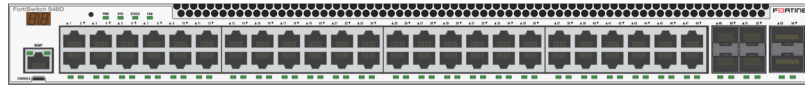


- ① 24x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP+ slots
- ③ 2x 40GE stacking interface



	FS-524D	FS-524D-FPOE
Switch Capacity	288 Gbps	288 Gbps
MAC Address Storage	96K	96K
Network Latency (64bytes)	<2 μs	<2 μs
VLANs Supported	4K	4K
Max LAG Size	up to 24 ports	up to 24 ports
PoE Power Budget	-	400 W
Power Supply	Single PS, Optional FS-PSU-150	Single PS, Optional FS-PSU-600

# FortiSwitch 548D Series



- ① 48x GE RJ45 Ports
- ② 4x 10GE SFP+ slots
- ③ 2x 40GE stacking interface

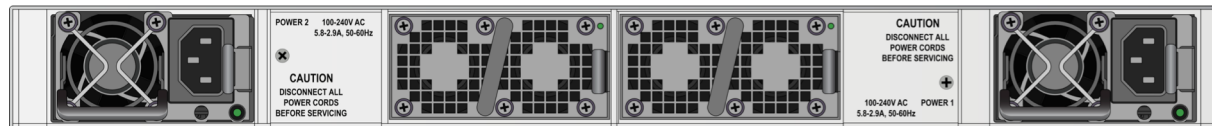
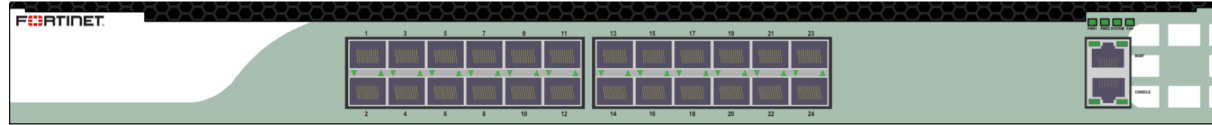


- ① 48x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP+ slots
- ③ 2x 40GE stacking interface

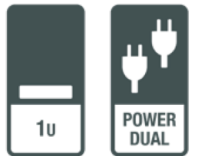


	FS-548D	FS-548D-FPOE
Switch Capacity	336 Gbps	336 Gbps
MAC Address Storage	96K	96K
Network Latency (64bytes)	<2 μs	<2 μs
VLANs Supported	4K	4K
Max LAG Size	up to 24 ports	up to 24 ports
PoE Power Budget	-	750 W
Power Supply	Single PS, Optional FS-PSU-150	Single PS, Optional FS-PSU-900

# FortiSwitch 1024D

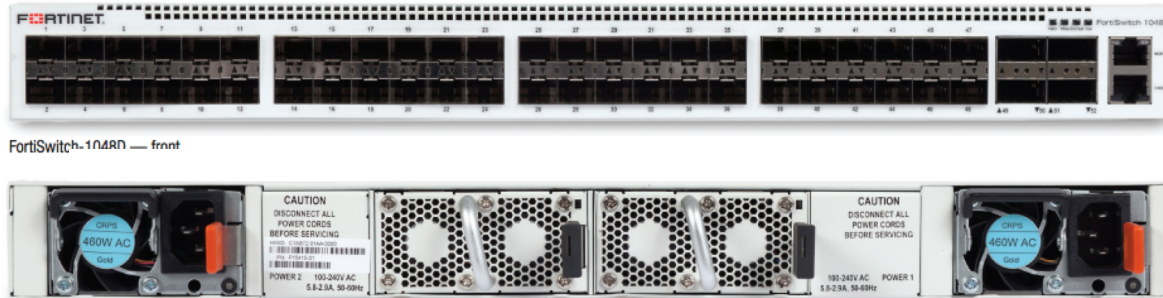


- ① 24x GE/10GE SFP/SFP+ slots
- ② 1x GE RJ45 Mgmt port

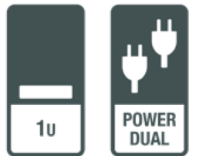


Switch Capacity	320 Gbps
MAC Address Storage	128,000
Network Latency (64bytes)	<1 $\mu$ s
VLANs Supported	4096
Max LAG Size	up to 24 ports
PoE Power Budget	-
Power Supply	Dual Redundant PS

# FortiSwitch 1048D

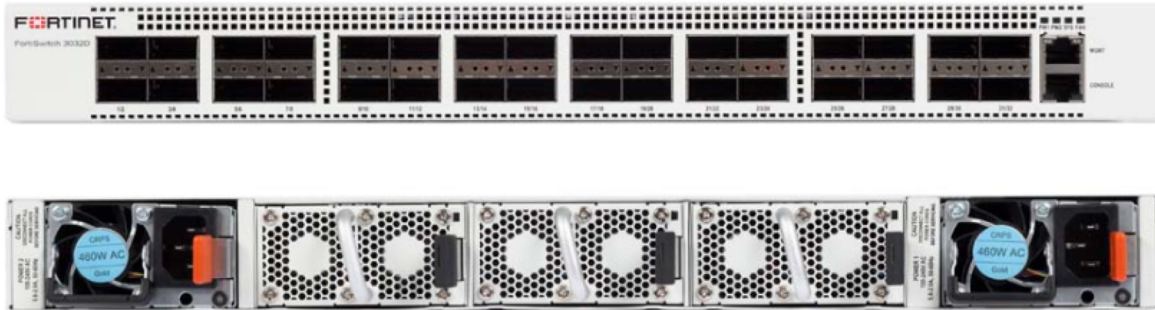


- ① 48x GE/10GE SFP/SFP+ slots
- ② 4x 40GE QSFP+ slots
- ③ 1x GE RJ45 Mgmt port

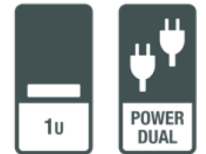


Switch Capacity	640 Gbps
MAC Address Storage	128,000
Network Latency (64bytes)	<1 $\mu$ s
VLANs Supported	4096
Max LAG Size	up to 24 ports
PoE Power Budget	-
Power Supply	Dual Redundant PS

# FortiSwitch 3032D



- ① 32x 40GE QSFP+ slots
- ② 1x GE RJ45 Mgmt port



Switch Capacity	1280 Gbps
MAC Address Storage	128,000
Network Latency (64bytes)	<1 $\mu$ s
VLANs Supported	4096
Max LAG Size	up to 24 ports
PoE Power Budget	-
	Dual Redundant PS



# FortiSwitch Series – Secure Access Switches (I)

	FS-108D-POE	FS-108E	FS-108E-POE	FS-108E-FPOE
<b>GE Ports</b>	-	7x RJ45, 1x RJ45 PoE-PD 2x SFP	4x RJ45 2x SFP	2x SFP
<b>PoE GE Ports</b>	8	-	-	-
<b>PoE/+ GE Ports</b>	-	-	4	8
<b>10GE SFP+ slots</b>	-	-	-	-
<b>Shared Ports (pair)</b>	2	-	-	-
<b>Power Budget</b>	75 W	-	65 W	130 W
<b>Power Supply</b>	Single AC	Single AC/PoE-PD	Single AC	Single AC

# FortiSwitch Series – Secure Access Switches (II)

	FS-124D	FS-124D-POE	FS-124E	FS-124E-POE	FS-124E-FPOE
<b>GE Ports</b>	24x RJ45, 2x SFP	12x RJ45, 2x SFP	24x RJ45, 4 x SFP	12x RJ45, 4 x SFP	4 x SFP
<b>PoE GE Ports</b>	-	12	-	-	-
<b>PoE/+ GE Ports</b>	-	-	-	12	24
<b>Power Budget</b>	-	100 W	-	185 W	370 W
<b>Power Supply</b>	Single AC	Single AC, Optional FRPS-740	Single AC	Single AC	Single AC

# FortiSwitch Series – Secure Access Switches (III)

	FS-224E	FS-224E-POE	FS-224D-FPOE
<b>GE Ports</b>	24x RJ45, 4x SFP	12x RJ45, 4x SFP	4x SFP
<b>PoE GE Ports</b>	-	-	-
<b>PoE/+ GE Ports*</b>	-	12	24
<b>Shared Ports (pair)</b>	-	-	-
<b>Power Budget</b>	-	180 W	370 W
<b>Power Supply</b>	Dual Redundant PS	Single AC, Optional FRPS-740	Single AC, Optional FRPS-740

# FortiSwitch Series – Secure Access Switches (IV)

	FS-248D	FS-248D-POE	FS-248E-POE	FS-248E-FPOE
<b>GE Ports</b>	48x RJ45 4x SFP	24x RJ45 2x SFP	24x RJ45 4x SFP	4x SFP
<b>PoE GE Ports</b>	-	24	-	-
<b>PoE/+ GE Ports</b>	-	-	24	48
<b>Power Budget</b>	-	370 W	370 W	740 W
<b>Power Supply</b>	Single PS	Single PS	Single AC, Optional FRPS-740	Single AC, Optional FRPS-740

# FortiSwitch Series – Secure Access Switches (V)

	FS-424D	FS-424D-POE	FS-424D-FPOE	FS-448D	FS-448D-POE	FS-448D-FPOE
<b>GE Ports</b>	24	-	-	48	-	-
<b>PoE/+ GE Ports</b>	-	24	24	-	48	48
<b>10GE SFP+ slots</b>	2	2	2	4	4	
<b>Power Budget</b>	-	185 W	370 W	-	370 W	740 W
<b>Power Supply</b>	Dual Redundant AC	Single AC, Optional FRPS-740	Single AC, Optional FRPS-740	Dual Redundant AC	Single AC, Optional FRPS-740	Dual Redundant AC

# FortiSwitch Series – Secure Access Switches (VI)

	FS-524D	FS-524D-FPOE	FS-548D	FS-548D-FPOE
<b>GE Ports</b>	24	-	48	-
<b>PoE/+ GE Ports</b>	-	24	-	48
<b>10GE SFP+ slots</b>	4	4	4	4
<b>40GE QSFP+ slots</b>	2	2	2	2
<b>Power Budget</b>	-	500 W	-	750 W
<b>Power Supply</b>	Single PS, Optional FS-PSU-150	Single PS, Optional FS-PSU-600	Single PS, Optional FS-PSU-150	Single PS, Optional FS-PSU-900

# FortiSwitch Series – Data Center Switches

	FSW-1024D	FSW-1048D	FSW-3032D
GE Ports	1x mgmt	1x mgmt	1x mgmt
PoE GE Ports	-	-	-
10GE Ports	24 (1G/10G)	48 (1G/10G)	-
40GE Ports	-	4	32
Shared Ports (pair)	-	-	-
Power Budget	-	-	-



**FortiClient**



# Introducing FortiClient



## Comprehensive end-point protection & security enforcement

### Multifunctional Host Security

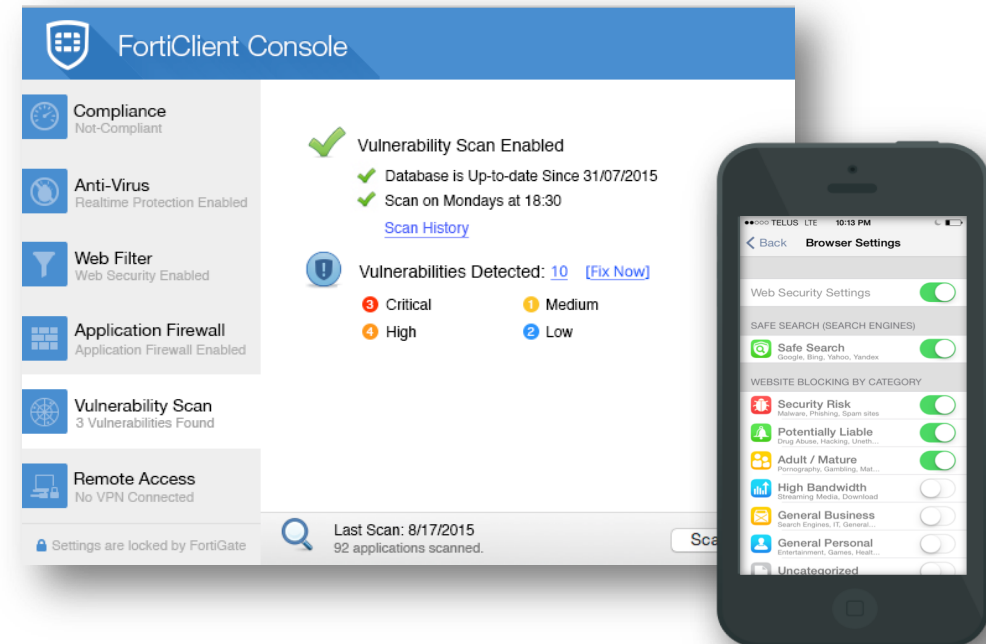
- Flexibility in deployment
- Fully integrated features, reduce needs for multiple client solutions

### End Point Control

- Enforce compliance and security policies on mobile hosts

### Centralized Logging and Reporting

- Via FortiGate for enterprise requirements



# FortiClient V5.6

	Windows	Mac OSX	Android	iOS	Chromebook	Windows Mobile	Linux
<b>Security Fabric Components</b>							
Endpoint Telemetry							
Compliance Enforcement			(Limited)	(Limited)			
Endpoint Audit and Remediation with Vulnerability Scanning							
<b>Advanced Threat Protection Components</b>							
ATP with FortiSandbox							
Host Quarantine Enforcement							
<b>Host Security and VPN Components</b>							
Antivirus							
Web Filtering							
Application Firewall							
IPSec VPN							
SSL VPN							

# FortiClient V5.6

	Windows	Mac OSX	Android	iOS	Chromebook	Windows Mobile	Linux
<b>Others</b>							
Windows AD SSO Agent							
Remote Logging & Reporting							
WAN Optimization							



**FortiToken**

# Introducing FortiToken

384629

## Oath Compliant Time Based Hardware One Time Password Token

### Supports Strong Authentication

- IPSEC VPN
- SSL VPN
- Administrative Login
- Captive Web Portal
- 802.1x Authentication
- Web Application Access
- SSO

---

### Authentication Platforms

- FortiGate (FOS4.3 and later)
- FortiAuthenticator (FAC 1.4 and later)

---

### Secure Seed Delivery Options

- Online Via FortiGuard
  - Encrypted file on CD (FTK-200S)
  - In-house Seed Provisioning Tool (special order)
- 



# Introducing FortiToken Mobile

384629

## Oath Compliant Time Based One Time Password Soft Token

### Highly Secure

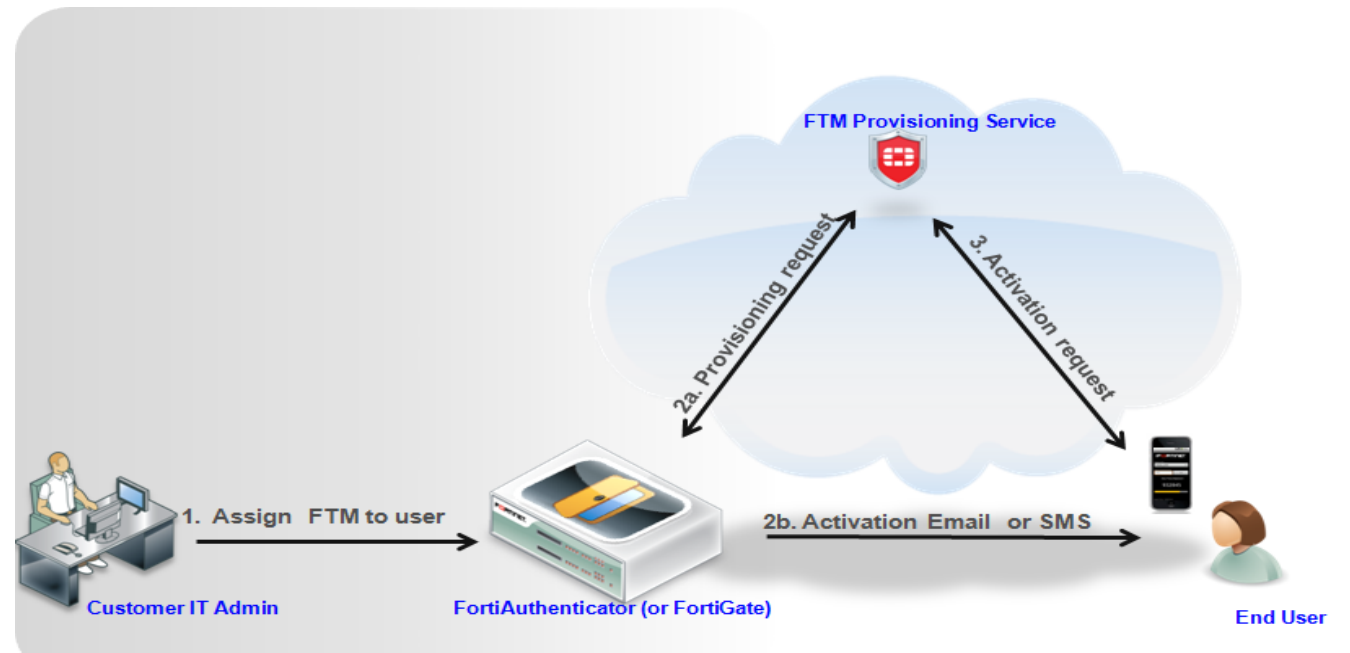
- Pin Protected App
- Device Binding
- Brute Force Protection
- Dynamic Seed Generation
- Encrypted Seed Storage

### Authentication Platforms

- FortiGate (FOS5.0 Beta 5 and later)
- FortiAuthenticator (FAC 1.4 and later)

### Broad Device Support

- iOS (iPhone, iPad, iPod Touch)
- Android
- BlackBerry (TBD)





# FortiAnalyzer

# Introducing FortiAnalyzer



Logging, reporting and analysis from multiple Fortinet devices

## Aggregated Logging

- Singular View of all Fortinet Devices
- Built-in Content Archiving
- Malicious File Quarantine

## Centralized Reporting

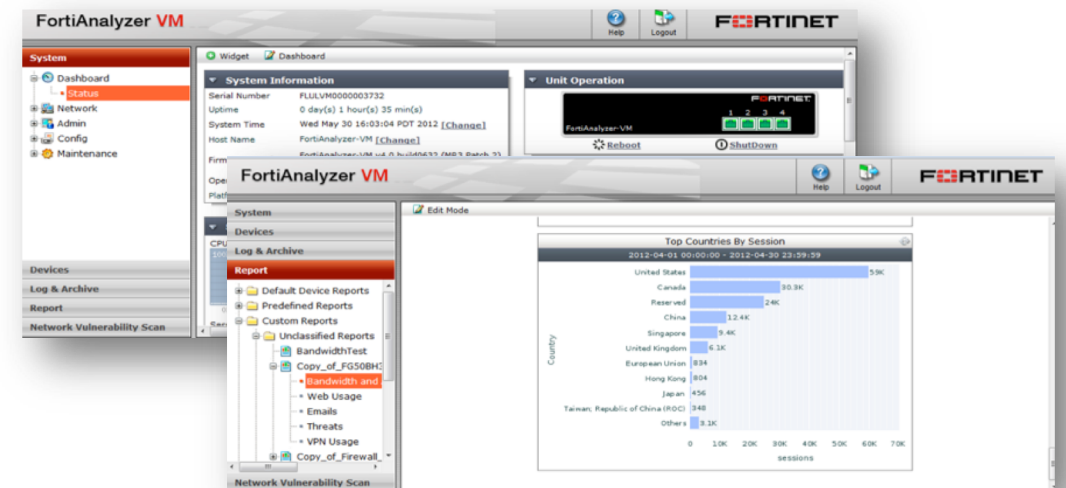
- Predefined Summary & Device Reports
- Hundreds of Customizable Charts & Graphs

## Analysis & Event Correlation

- Vulnerability Assessment
- Network & Log Analysis

## Scalable Solution

- Hardware and VM Versions Available
- Collector/Analyzer Modes for Large Deployments
- High Performance Logs/Sec Processing
- Support for Internal or External SQL Databases





# FortiAnalyzer Series

	FAZ-400E	FAZ-1000E	FAZ-2000E	FAZ-3000F
<b>GB/Day</b>	200	600	1,000	3,000
<b>Analytic Sustained Rate (logs/sec)</b>	6,000	18,000	30,000	42,000
<b>Collector Sustained Rate (logs/sec)</b>	9,000	27,000	45,000	60,000
<b>Max. Devices/ADOMs</b>	200	2,000	2,000	4,000
<b>Max Number of Days Analytics</b>	30	30	30	21
<b>Total Interfaces</b>	4x GE RJ45	2x GE RJ45	4x GE RJ45, 2x GE SFP	4x GE RJ45, 2x GE SFP
<b>Storage capacity</b>	4x 3 TB	8x 3TB	12x 3TB	16x 3TB
<b>RAID support</b>	Yes (0,1,5,10)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)

# FortiAnalyzer Series

	FAZ-3500F	FAZ-3700F
<b>GB/Day</b>	5,000	8,300
<b>Analytic Sustained Rate (logs/sec)</b>	63,000	100,000
<b>Collector Sustained Rate (logs/sec)</b>	90,000	150,000
<b>Max. Devices/ADOMs</b>	10,000	10,000
<b>Max Number of Days Analytics</b>	30	60
<b>Total Interfaces</b>	4x GE RJ45, 2x GE SFP	2x GE RJ45, 2x GE SFP+
<b>Storage capacity</b>	24x 3TB	60x 4TB
<b>RAID support</b>	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)

# FortiAnalyzer VM-Series

	FAZ-VM-BASE	FAZ-VM-GB1	FAZ-VM-GB5	FAZ-VM-GB25	FAZ-VM-GB100	FAZ-VM-GB500	FAZ-VM-GB2000
<b>GB/Day</b>	1	+1	+5	+25	+100	+500	+2,000
<b>Max. Devices/ADOMs</b>	10,000	10,000	10,000	10,000	10,000	10,000	10,000
<b>Storage Capacity</b>	200 GB	+500 GB	+3 TB	+10 TB	+24 TB	+48 TB	+100 TB
<b>RAID Support</b>	-	-	-	-	-	-	-



# FortiManager

# Introducing FortiManager



Tools that effectively manage any size Fortinet security infrastructure, from a few to thousands of appliances

## Administrative Domains (ADOMs)

- Enables the primary 'admin' to create Virtual Management Domains containing devices for other administrators to monitor and manage

## Hierarchical Objects & Policy Management

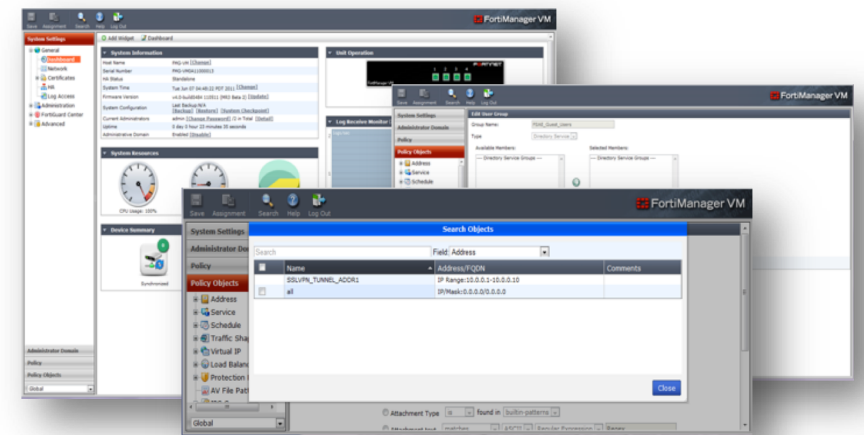
- Create Global Objects and Policies
- Assign to ADOM or groups of ADOMS
- Create device configuration templates to quickly configure a new Fortinet appliance

## Web Portal SDK

- JSON-based API allows MSSPs to offer administrative web portals to customers

## Locally Hosted Security Content

- Allows administrators better control over security content updates and provides improved response time for rating databases.
- Run a local copy of AV, IPS, URL, A/S signature databases.\*



\* Capabilities varied by Models

# FortiManager Series

	FMG-200D	FMG-300D	FMG-300E	FMG-400E
Max. Devices	30	300	100	300
Max. ADOMs	30	300	100	300
Interfaces	4x GE RJ45	4x GE RJ45	4x GE RJ45	2x GE RJ45
Storage capacity	1x 1TB	2x 2TB	4x 3TB	8x 3TB

	FMG-1000D	FMG-2000E	FMG-3000F
Max. Devices	1,000	1,200	4,000
Max. ADOMs	1,000	1,200	4,000
Interfaces	6x GE RJ45, 2x SFP	4x GE RJ45, 2x SFP+	4x GE RJ45, 2x SFP+
Storage capacity	4x 2TB	12x 3TB	16x 3TB

# FortiManager-VM Series

<b>Max. Devices</b>	<b>10</b>	<b>+10</b>	<b>+100</b>	<b>+1,000</b>	<b>+5,000</b>	<b>Unlimited</b>
<b>Max. ADOMs (default/Max)</b>	10	+10	+100	+1,000	+5,000	Unlimited
<b>Max. Web Portals</b>	10	+10	+100	+1,000	+5,000	Unlimited
<b>Max. Portal Users</b>	10	+10	+100	+1,000	+5,000	Unlimited
<b>GB Logs/day</b>	1	2	5	10	25	50
<b>Max. Virtual NICs (Min/Max)</b>	1 / 4					
<b>Storage capacity (Min/Max)</b>	80 GB / 16 TB					



**FortiSandbox**



# Introducing FortiSandbox



**Advanced Threat Protection solution designed to identify and thwart the highly targeted and tailored attacks**

## Advanced Threat Protection

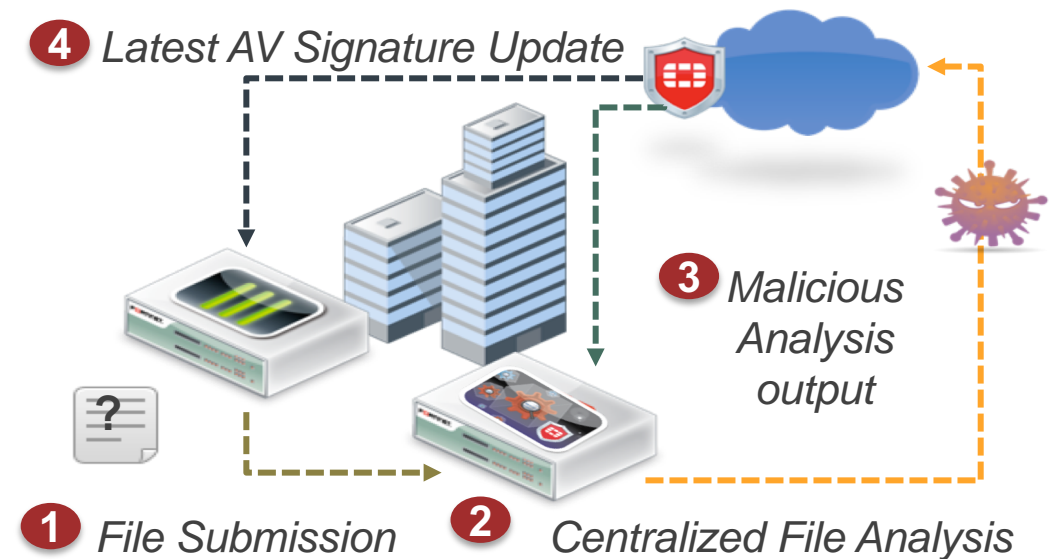
- Multi-layered filtering with Code Emulator, AV engine, Cloud query and Virtual OS sandbox
- Handles multiple file types, includes files that are encrypted or obfuscated
- Examine files from various protocols, included those that uses SSL encryption

## Flexible Operation Modes

- Receives file sample using integration with FortiGate/FortiMail, sniffer mode and manual file uploads
- Capture files from remote locations using deployed FortiGates

## Monitoring and Reporting

- Detailed analysis reports and real-time monitoring and alerting



# FortiSandbox Series

FortiSandbox	FSA-1000D	FSA-2000E	FSA-3000E	FSA-3500D	FSA-VM
<b>VM Sandboxing (Files/Hour)</b>	160	480	1,120	720* (Upgradable** to 1,200) (160 per node)	Hardware Dependent
<b>AV Scanning (Files/Hour)</b>	6,000	12,000	15,000	30,000* (Upgradable** to 48,000) (6,000 per node)	Hardware Dependent
<b>Number of VMs</b>	8	4+20 optional	8 + 48 optional	36* (Upgradable** to 60) (8 per node)	Total: 1 to 54
<b>Interfaces</b>	6x GE RJ45 ports, 2x GE SFP slots	4x GE RJ45 ports, 2x 10GE SFP+ slots	4x GE RJ45 ports, 2x 10GE SFP+ slots	20x GE RJ45 ports, 10x 10 GE SFP+ slots (4x GE RJ45 ports, 2x 10 GE SFP+ slots per node)	Hardware Dependent

FSA-3500D: comes with default 5 nodes, up to 8 maximum

\* Based on the assumption that 1 blade will be used as master in HA-cluster mode.

\*\* By adding 3 more SAM-3500D nodes to the same chassis..



# FortiAuthenticator

# Introducing FortiAuthenticator



## Identity Management, User Access Control and multi-factor identification

### Authentication and Authorization

- RADIUS, LDAP, 802.1X

### Two Factor Authentication

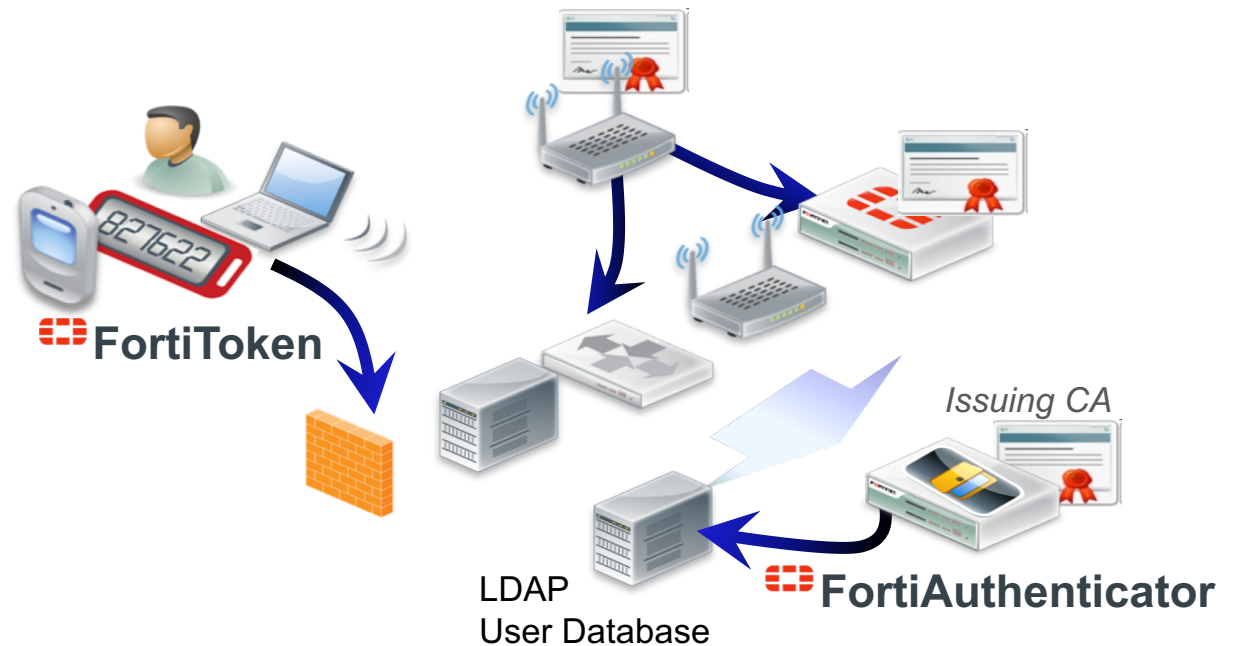
- FortiToken
- Tokenless, via SMS and email

### Certificate Management

- X.509 Certificate Signing, Certificate Revocation
- Remote Device / Unattended Authentication

### Fortinet Single Sign on

- Active Directory Polling
- RADIUS Integration



# FortiAuthenticator Series

	FAC-200E	FAC-400E	FAC-1000D	FAC-2000E	FAC-3000E
<b>Max. Local + Remote Users</b>	500	2,000	10,000	20,000	40,000
<b>Max. FortiTokens</b>	1,000	4,000	20,000	40,000	80,000
<b>Max. NAS Devices</b>	166	666	3,333	6,666	26,666
<b>Max. User Groups</b>	25	50	2,000	2,000	4,000
<b>Max. CA Certificates</b>	10	10	50	50	50
<b>Max. User Certificates</b>	2,500	10,000	50,000	50,000	50,000
<b>Interfaces</b>	4x GE RJ45 Gbps	4x GE RJ45	4x GE RJ45 Gbps	4x GE RJ45 Gbps 2x GE SFP	4x GE RJ45 Gbps 2x GE SFP
<b>Storage Capacity</b>	1 x 1 TB	2 x 1 TB	2 x 2 TB	2 x 2 TB	2 x 2 TB

# FortiAuthenticator-VM Series

	FAC-VM Base	FAC-VM-100-UG	FAC-VM-1000-UG	FAC-VM-10000-UG	FAC-VM-100000-UG
Max. Local Users	100	+100	+1,000	+10,000	+100,000
Max. Remote Users	100	+100	+1,000	+10,000	+100,000
Max. FortiTokens	200	+200	+2,000	+20,000	+200,000
Max. NAS Devices	33	+33	+333	+3,333	+33,333
Max. User Groups	10	+10	+100	+1,000	10,000
Max. CA Certificates	5	+5	+50	+500	+500
Max. User Certificates	100	+100	+1,000	+10,000	+100,000
Interfaces (Min/Max)				1 / 4	
Storage Capacity (Min Max)				60 GB / 2 TB	



# FortiDDoS

# Introducing FortiDDoS



## Hardware Accelerated DDoS Intent Based Defense

### Rate Based Detection

- High performance protection using SPU

### Self Learning Baseline

- Ease Maintenance
- Maintain appropriate protection dynamically

### Signature Free Defense

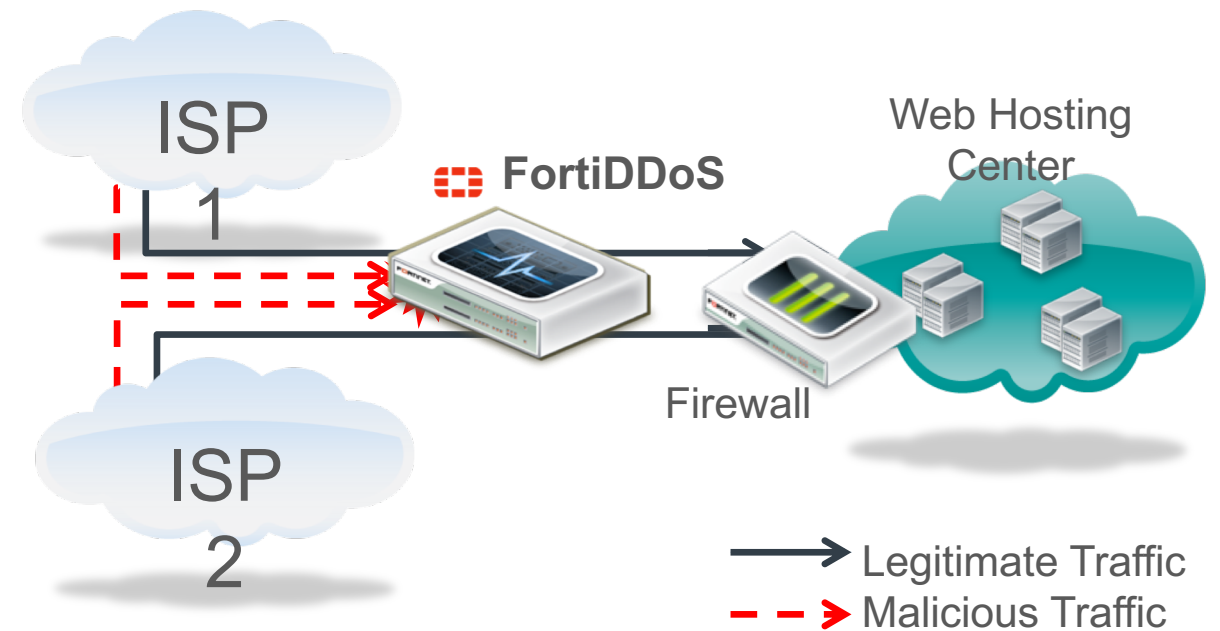
- Hardware based protection

### Inline Full Transparent Mode

- No MAC address changes

### Granular Protection

- Multiple thresholds to detect subtle changes and provide rapid mitigation





# FortiDDoS Series

	FDD-200B	FDD-400B	FDD-600B	FDD-800B	FDD-900B	FDD-1000B/-DC	FDD-1200B
<b>Throughput (Full Duplex)</b>	3 Gbps	6 Gbps	12 Gbps	12 Gbps	18 Gbps	18 Gbps	36 Gbps
<b>Simultaneous Connections</b>	1 Mil	1 Mil	2 Mil	2 Mil	3 Mil	3 Mil	4 Mil
<b>Session Setup/Teardown</b>	100,000 / Second	100,000 / Second	200,000 / Second	200,000 / Second	300,000 / Second	300,000 / Second	600,000 / Second
<b>Latency</b>	< 50 $\mu$ s	< 50 $\mu$ s	< 50 $\mu$ s	< 50 $\mu$ s	< 50 $\mu$ s	< 50 $\mu$ s	< 50 $\mu$ s
<b>Interfaces</b>	4 LAN Interfaces (Copper/SFP), 4 WAN Interfaces (Copper/SFP)	8 LAN Interfaces (Copper/SFP), 8 WAN Interfaces (Copper/SFP)	8 LAN Interfaces (Copper/SFP), 8 WAN Interfaces (Copper/SFP)	8 LAN Interfaces (Copper/SFP), 8 WAN Interfaces (Copper/SFP)	16x LAN & WAN 10GE SFP/+	16x LAN & WAN 10GE SFP/+	16x LAN & WAN 10GE SFP/+, 4 LAN & WAN bypass 10GE SFP/+
<b>Advanced DNS Mitigation</b>	Yes	Yes	No	Yes	No	Yes	Yes



# FortiMail

# Introducing FortiMail



Advanced anti-spam and antivirus filtering solution, with extensive quarantine and archiving capabilities.

## Specialized messaging security system

- Advanced, bi-directional filtering prevents spread of spam, viruses, phishing, worms, and spyware

## Flexible deployment options

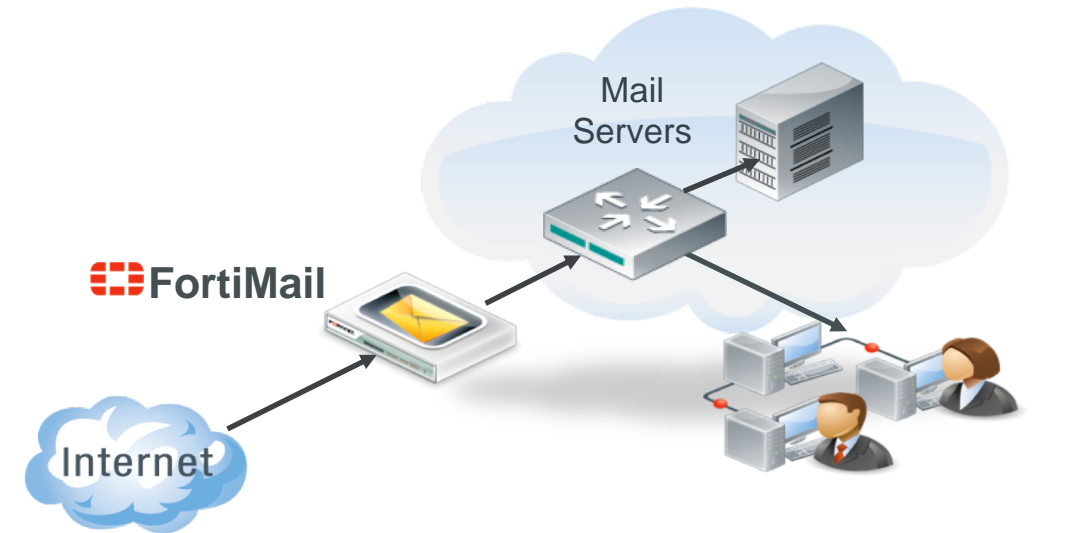
- Transparent, Gateway, and Server modes that adapts to organizational needs and budget

## Identity based encryption

- Secure, encrypted communication

## Email archiving

- On-box archiving facilitates policy and regulatory compliance requirements



# FortiMail Series

FortiMail	FML-60D	FML-200E	FML-400E	FML-1000D	FML-2000E	FML-3000E	FML-3200E
Email Domains	2	20	100	800	800	2,000	2,000
Server Mode Mailboxes	50	150	400	1,500	1,500	3,000	3,000
Email Routing* (Msg/hr)	3,600	80 K	157 K	680,000	1.1 Mil	1.8 Million	1.8 Million
FortiGuard Antispam+AV* (Msg/hr)	2,700	61 K	126 K	500,000	900,000	1.5 Million	1.5 Million
GE RJ45 ports	4	4	4	6	4	4	4
GE SFP Slots	-	-	-	2	2	2	2
10 GE SFP+ Slots	-	-	-	-	-	-	2
Storage capacity	1x 500GB	1x 1TB	2x 1TB	2x 2 TB (2x 2 TB Optional)	2x 2 TB (6x 2 TB Optional)	2x 2TB (10 x 2 TB Optional)	2x 2 TB (10x 2 TB Optional)
Form Factor	Desktop	Rack Mount, 1RU	Rack Mount, 1RU	Rack Mount, 2RU	Rack Mount, 2RU	Rack Mount, 2RU	Rack Mount, 2RU

\* Based on 100KB message size, no queuing

# FortiMail-VM Series

FortiMail	FML-VM00	FML-VM01	FML-VM02	FML-VM04	FMG-VM08	FMG-VM016	FMG-VM32
Email Domains	2	20	100	800	2,000	2,000	2,000
Server Mode Mailboxes	50	150	400	1,500	3,000	3,000	3,000
Email Routing* (Msg/hr)	3,600	34,000	67,000	306,000	675,000	875,000	1,200,000
FortiGuard Antispam+AV* (Msg/hr)	2,700	30,000	52,000	225,000	585,000	817,000	1,100,000
Max vCPU supported	1	1	2	4	8	16	32
Max vNICs	4	4	4	4	4	6	6
Storage capacity (Min/Max)	50 GB / 1 TB	50 GB / 1 TB	50 GB / 2 TB	50 GB / 4 TB	50 GB / 8 TB	50 GB / 12 TB	50 GB / 24 TB
Memory required (Min/Max)	1 GB / 2 GB	1 GB / 2 GB	1 GB / 4 GB	1 GB / 8 GB	1 GB / 16 GB	1 GB / 128 GB	1 GB / 128 GB

\* Based on 100KB message size, no queuing



**FortiWeb**

# Introducing FortiWeb



Web application firewall to protect, balance, and accelerate web applications

## Web Application Firewall

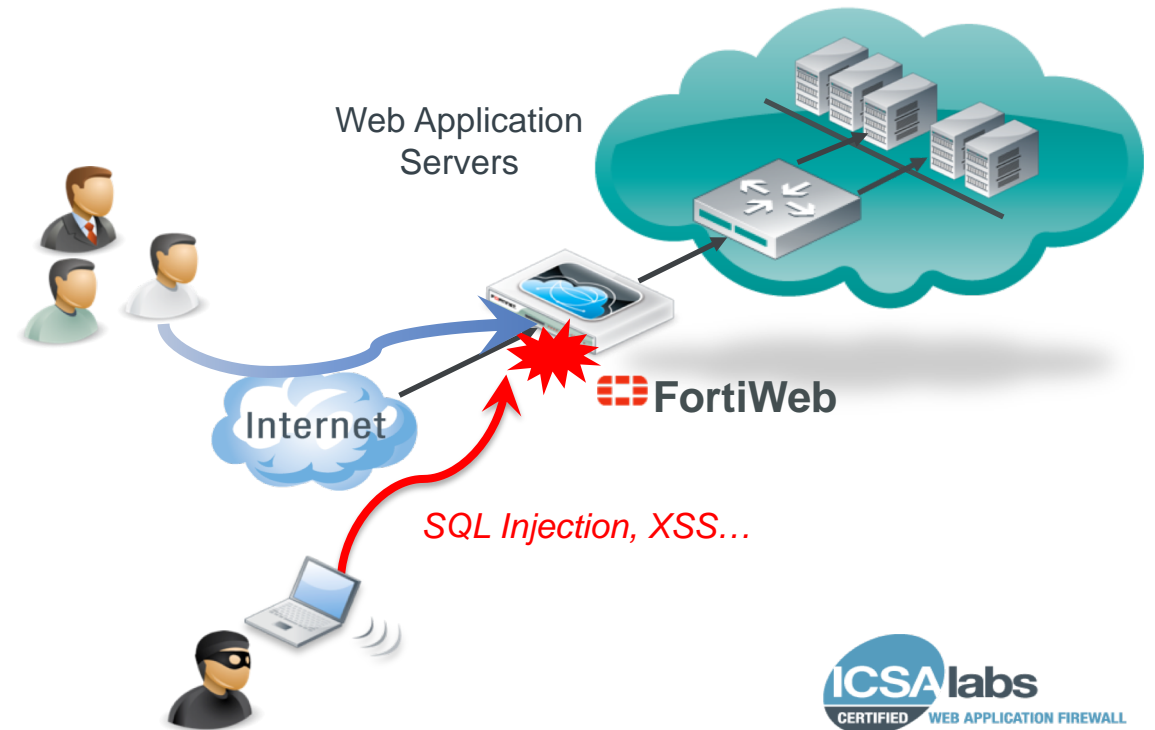
- Aids in PCI DSS 6.6 compliance
- Protection against OWASP Top 10
- Application layer DDoS protection
- Auto Learn security profiles
- Geo IP data analysis and security

## Web Vulnerability Scanner

- Scans, analyzes and detects web application vulnerabilities

## Application Delivery

- Assures availability and accelerates performance of critical web applications



# FortiWeb Series

FortiWeb	FWB-100D	FWB-400D	FWB-600D	FWB-1000D	FWB-3000E	FWB-3010E	FWB-4000E
Throughput	25 Mbps	100 Mbps	250 Mbps	1 Gbps	5 Gbps	5 Gbps	20 Gbps
Latency	Sub-ms	Sub-ms	Sub-ms	Sub-ms	Sub-ms	Sub-ms	Sub-ms
GE RJ45 ports	4	4	2 + 2 Bypass	2 + 4 Bypass	4 + 4 Bypass	4+ 4 Bypass	4+ 4 Bypass
GE SFP slots	-	4	4	2	4	4	4
10GE SFP+	-	-	-	-	4	2+ 2 Bypass	2+ 2 Bypass
Storage capacity	16 GB	240 GB	240 GB	2x 2 TB	2x 2 TB	2x 2 TB	2x 2 TB
Form Factor	Desktop	Rack mount, 1RU	Rack mount, 1RU	Rack Mount, 2RU	Rack Mount, 2RU	Rack Mount, 2RU	Rack Mount, 2RU



# FortiWeb-VM Series

FortiWeb	FWB-VM02	FWB-VM04	FWB-VM08
Throughput	100 Mbps	500 Mbps	1 Gbps
Max HTTP transactions / Sec	8,000	24,000	36,000
Max vCPU Supported	2	4	8
Memory required (Min)		1 GB	
Storage capacity (Min)		40 GB	

# FortiDB Series

	FortiDB 500D	FortiDB 1000D	FortiDB 3000D
#Licensed DB Instances	15	30	90
Total Interfaces	4x GE RJ45, 4x SFP	6x GE RJ45, 2x SFP	4x GE, 2x SFP
Storage	4 TB	4 TB	4 TB
DB Supported	Unless otherwise stated, all databases support VA, sniffer and native DAM. DB2 UDB V8.x (VA only), V9.x/V10.x; MS SQL Server 2000/2005/2008/2008R2/2012/2014; MySQL 5.x (VA and native DAM); Oracle 9i/10gR1/10gR2/11g/12c; Sybase ASE 12.5 (VA and sniffer DAM), 15.x; PostgreSQL 8.x/9.x (sniffer DAM); MongoDB 2.6 (VA).		



# FortiADC

# Introducing FortiADC



Optimize the availability, performance and scalability of mobile, cloud and enterprise application delivery

## Application Availability

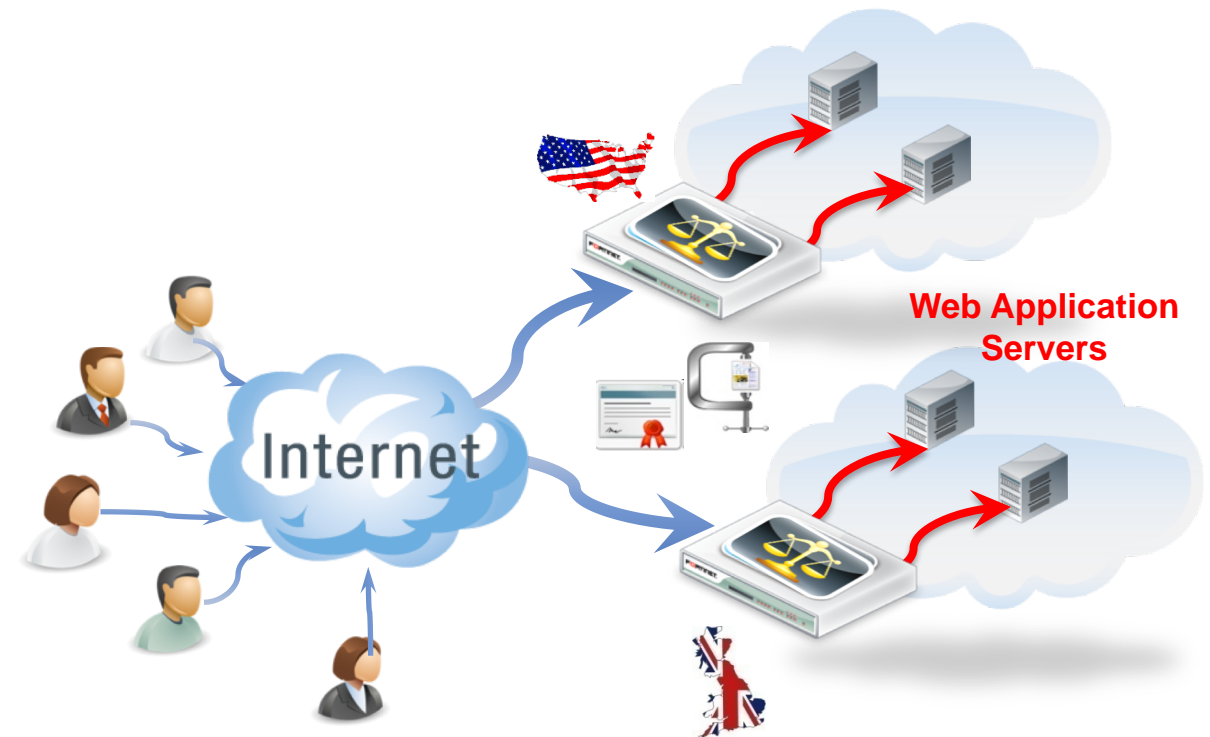
- Layer 2/3/4 and 7 load balancing techniques
- Application session persistence
- Proxy and transparent modes
- Global Server Load Balancing (GSLB) for geographic resilience
- Link Load Balancing

## Application Acceleration

- TCP Optimization
- Memory based content caching
- Data compression
- SSL Offload and acceleration

## Application Interoperability

- Implementation Guides for Microsoft Exchange, Lync, SAP etc.



# FortiADC Series

FortiADC	FAD 60F	FAD 100F	FAD 200F	FAD 300D	FAD 400D	FAD 1000F	FAD 2000F	FAD 4000F
<b>L4 Throughput</b>	500 Mbps	1.5 Gbps	3 Gbps	6 Gbps	12 Gbps	20 Gbps	40 Gbps	60 Gbps
<b>L7 RPS</b>	100,000	400,000	600,000	725,000	1 Million	1.7 Million	2.6 Million	4.3 Million
<b>L7 Throughput</b>	450 Mbps	1.3 Gbps	2.5 Gbps	4 Gbps	8 Gbps	17 Gbps	25 Gbps	35 Gbps
<b>SSL CPS 2048 Key</b>	55	500	1,000	1,500	7,000	19,000	35,000	54,000
<b>Total Interfaces</b>	5x GE RJ45	6x GE RJ45	4x GE RJ45 2x GE SFP	4x GE RJ45 4x GE SFP	2x 10 GE SFP+, 4x GE SFP, 4x GE RJ45	4x 10 GE SFP+, 8x GE SFP, 8x GE RJ45	8x 10 GE SFP+, 8x GE SFP, 8x GE RJ45	4x 10 GbE SFP+, 16x GE RJ45
<b>Power Supply</b>	Single	Single	Single	Single	Single (optional Dual)	Single (optional Dual)	Dual	Dual

# FortiADC-VM Series

FortiADC	FAD-VM01	FAD-VM02	FAD-VM04	FAD-VM08
L4 Throughput	1 Gbps	2 Gbps	4 Gbps	10 Gbps
VDOM	0	0	5	10
vCPU support (Min / Max)	1	2	4	8
Memory support (Min / Max)	512 MB / 2 GB	512 MB / 4 GB	512 MB / 8 GB	512 MB / 16 GB



# FortiWAN

# FortiWAN Series

FortiWAN	FWN-200B	FWN-1000B	FWN-3000B
WAN Bandwidth	60-200 Mbps*	1 - 2 Gbps*	3 – 9 Gbps*
Max. WAN Links	25	50	50
Concurrent Connections	800,000	2,000,000	6,000,000
Connections per Second	42,000	180,000	550,000
Network Interfaces	5x GE RJ45	3x GE RJ45, 4x GE SFP	8x 10GE SFP+, 8x GE RJ45 , 8x GE SFP

FortiWAN-VM	FWN-VM02**	FWN-VM04**
WAN Bandwidth	1 Gbps	2 Gbps
Network Interfaces	Up to 10x GE / 10 GE vNICs (1 reserved for HA)	

\* Throughputs based on license(s) selected.

\*\* Actual performance values may vary depending on system configuration and network traffic. Performance metrics were observed using a Dell PowerEdge R730 server (2x Intel Xeon E5-2630v3 2.4 GHz 20 MB Cache) running VMware ESXi 5.5 with 2 GB of vRAM assigned to the 2 vCPU and 4 vCPU FortiWAN Virtual Appliances.





# FortiCache

# Introducing FortiCache



Reduce the cost and impact of downloaded content, while increasing performance by improving the speed of access

## Web Content Caching

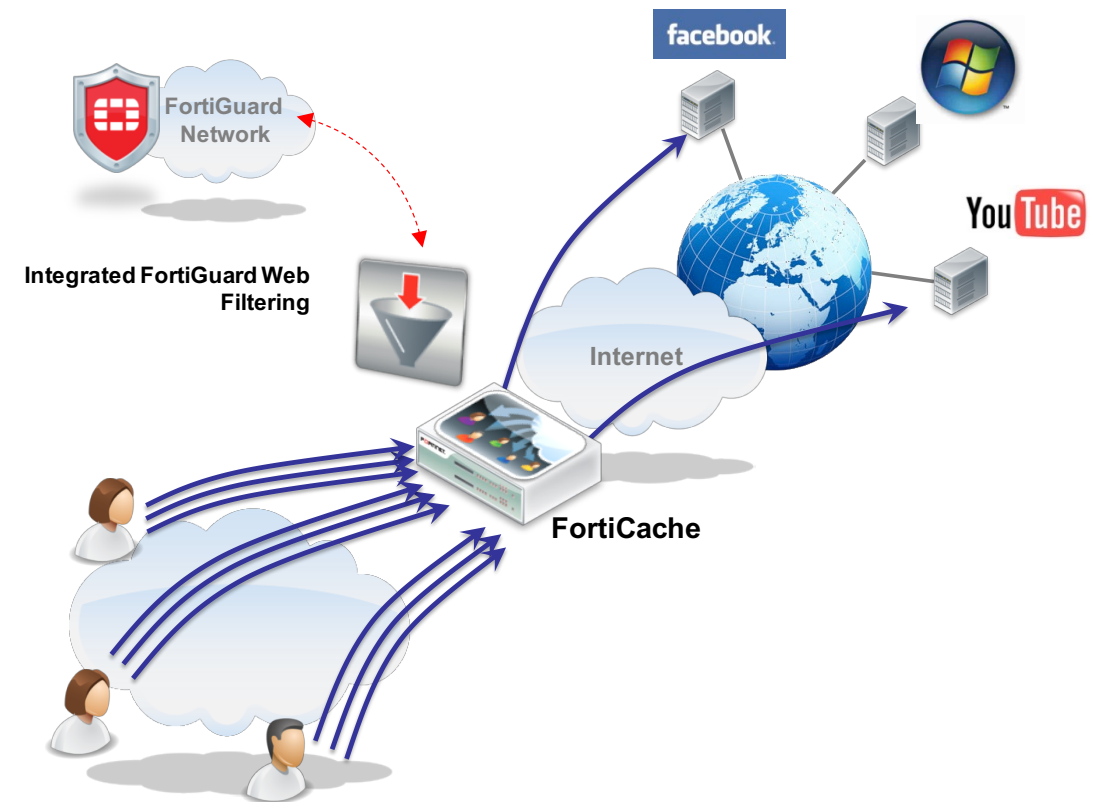
- High performance content caching
- Explicit or Transparent proxy cache
- FortiGuard Web Filtering

## Video Caching

- Broad CDN Support
- Detects same video ID when content comes from different CDN hosts
- Supports seek forwards and backwards in video, detected preceding adverts

## WAN Optimization

- Bandwidth optimisation across congested WAN Links
- Interoperates with FortiGate



# FortiCache Series

	FCH-400E	FCH-1000D	FCH-3000D	FCH-3900E
Throughput	100 Mbps	200 Mbps	2.0 Gbps*	4 Gbps
Total Interfaces	4x GE RJ45	2x GE RJ45, 2x GE SFP, 4x GE bypass	4x GE RJ45, 2x GE SFP, 2x GE bypass	2x GE RJ45, 2x 10GE SFP+,
Storage Capacity	2x 2 TB	8 TB	4x 2 TB (16 TB Max)	15x 960 GB SSD

\* Fully Populated



# FortiSIEM

# Introducing FortiSIEM



## Unified event correlation and risk management for modern networks

- Asset Self-Discovery for adaptive awareness of the threat landscape
- Rapid Integrations and Scalability for an ever changing network environment
- NOC & SOC Analytics for rapid detection of potential threats
- Multi-tenancy for MSPs and segmented enterprise domains
- Single Pane of Glass View for consolidated visibility





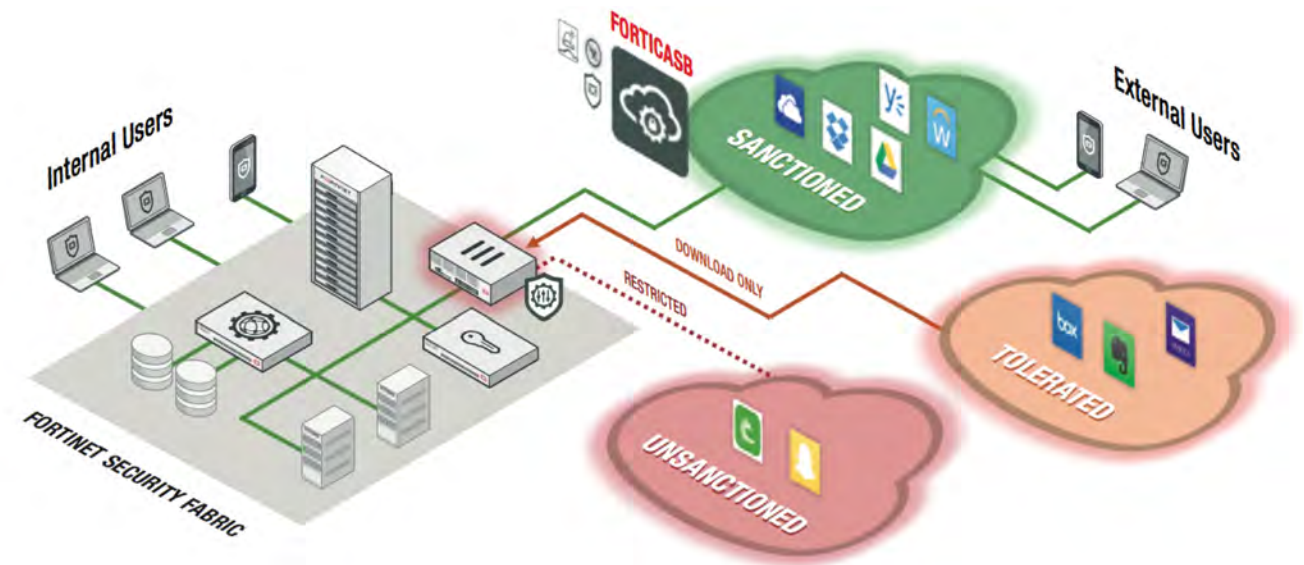
**FortiCASB**

# Introducing FortiCASB



## Hosted Service Designed to Provide Visibility, Insight, and Control for SaaS Applications

- API-based access to cloud applications enables visibility and control of stored data.
- Cloud-based subscription model grows with your organization.
- Data is protected directly with the SaaS provider, not funneled to an inspection point.
- Actionable reports: cloud usage and risk analytic with pre-defined policies and audit reports for compliance





# FortiRecorder & FortiCamera



# Introducing FortiRecorder and FortiCamera



**Network-based Video Security that simplify surveillance while streamlining the user experience.**

- Capture continuous or motion-based recording (or both)
- Alarms and snapshot notifications keep you aware of what's going on
- An event timeline lets you find and review motion events quickly and easily
- IOS and Android apps for mobile camera access
- Cameras use Power over Ethernet (PoE) for easy installation
- Web-based interface with no need for dedicated client
- Video Management System for Windows (FortiRecorder Central)



# FortiRecorder Series

	FRD-100D	FRD-200D	FRD-VM
<b>Camera Capacity</b>	16	64	1024
<b>Form Factor</b>	Desktop	1 RU	VM
<b>Total Interface</b>	3x GE RJ45	4x GE RJ45	1 to 4 network cards supported
<b>Storage</b>	1 TB	1 TB	Unrestricted
<b>Management Tools</b>	FortiRecorder Mobile Apps (iOS, Android), FortiRecorder Central (Windows)		

# FortiCamera Series



	FCM-FD40	FCM-FD20	FCM-MD20	FCM-MB40
<b>Description</b>	Ultra-WDR Day/Night IP Video Security Camera	Versatile Day/Night, Vandal proof indoor/outdoor camera	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera
<b>Camera</b>	4 Megapixel Fixed Dome IP Camera	2 Megapixel Fixed Dome IP Camera	2 Megapixel Mini Dome IP Camera	4 Megapixel Mini box IP Camera
<b>Additional Features</b>	IR/Night Vision, Audio, DIDO	IR/Night Vision, Vandal Proof	IR/Night Vision	IR/Night Vision
<b>Total Interface</b>	1x FE RJ45, 802.3af PoE	1x FE RJ45, 802.3af PoE	1x FE RJ45, 802.3af PoE	2x FE RJ45
<b>Wireless AP</b>	-	-	-	-

# FortiCamera Series



	<b>FCM-CB20</b>	<b>FCM-SD20</b>	<b>FCM-AP214B</b>
<b>Description</b>	Varifocal zoom lens, indoor/outdoor camera	Ultra-WDR IP PTZ Camera , Speed Dome, Indoor/Outdoor	Indoor Fixed Dome IP Camera with built-in wireless AP
<b>Camera</b>	2 Megapixel Bullet IP Camera	2 Megapixel Dome IP Camera	2 Megapixel Indoor Fixed Dome IP Camera
<b>Additional Features</b>	IR/Night Vision, 2.8 - 12mm varifocal lens, IP66	optical 30x zoom, electronic image stabilization, wide dynamic range	LED Night Vision, PIR, Audio, DIDO
<b>Total Interface</b>	1x FE RJ45, 802.3af	1x FE RJ45, 802.3at PoE	1 x GE RJ45, 802.3af PoE
<b>Wireless AP</b>	-	-	single radio (802.11 a/b/g/n, 2x2 MIMO)



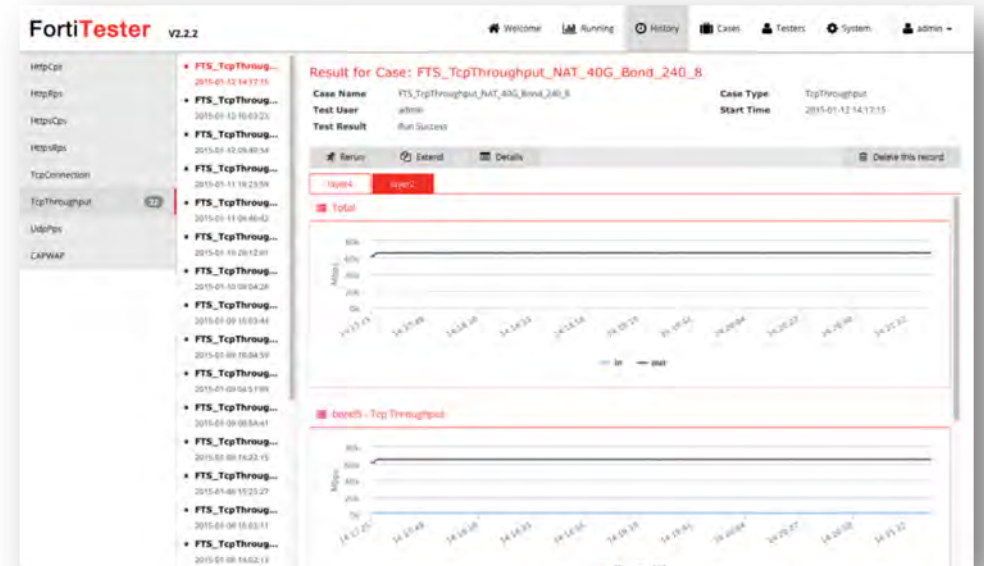
**FortiTester**

# Introducing FortiTester



Network performance tester that aids in infrastructure optimization and configuration validation

- Affordable appliance that provides low TCO
- Run network performance tests
  - Connections (TCP)
  - throughput (TCP)
  - PPS (UDP)
  - CPS (HTTP/HTTPS)
  - RPS (HTTP/HTTPS)
  - CAPWAP throughput
- Ease-to-use web-based UI
  - History Viewer
  - Case Profiles



# FortiTester Series

	FTS-2000D	FTS-2500E	FTS-3000E	FTS-VM04 (vSwitch)
<b>HTTP Throughput</b>	19.9 Gbps	20 Gbps	39.9 Gbps	14 Gbps
<b>HTTP CPS</b>	835,000	882,000	1,200,000	353,000
<b>HTTP Connection</b>	9,500,000	10,000,000	21,000,000	2,000,000
<b>SSL Throughput</b>	1.1 Gbps	1.4 Gbps	2.8 Gbps	1.1 Gbps
<b>CPS</b>	2,3000	18,000	23,000	2,600
<b>SSL Connection</b>	14,000	15,000	18,000	15,000
<b>Total Interfaces</b>	4x 10GE SFP+, 1x MGMT GE RJ45	4x 10GE SFP+, 1x MGMT GE RJ45	2x 40GE QSFP+, 1x MGMT GE RJ45	-
<b>Form Factor</b>	1U	1U	1U	-
<b>Storage</b>	120 GB SSD	120 GB SSD	2 TB HDD	-

 **FortiWLC**

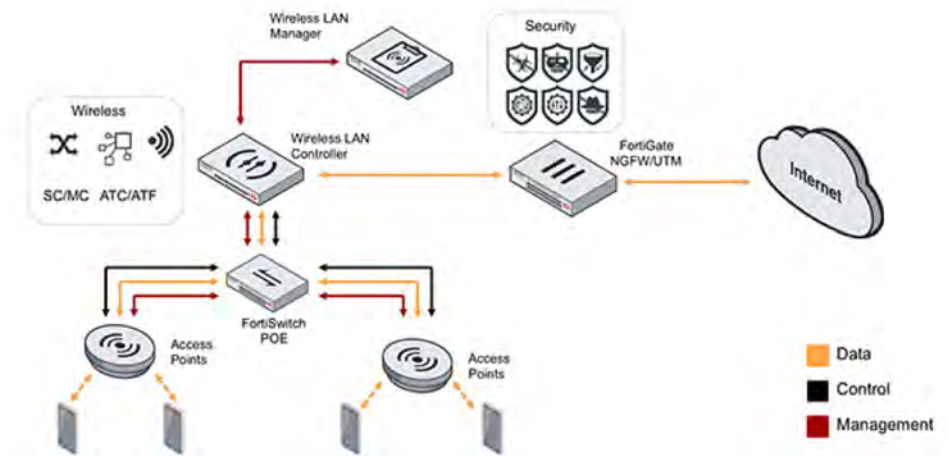


# Introducing FortiWLC



Wi-Fi Controller that manages authentication, encryption and virtual private network connections for the wireless network.

- Powered by System Director OS, and supports 802.11ac Wave II access points
- Radio frequency virtualization supported by patented Virtual Cell technology
- Infrastructure-controlled, zero-loss handoffs and traffic load balancing
- Multilayered wireless LAN security: 802.1X authentication, encryption, firewall, and optional wireless IPS/IDS
- Seamless interoperability with multi-vendor network infrastructure





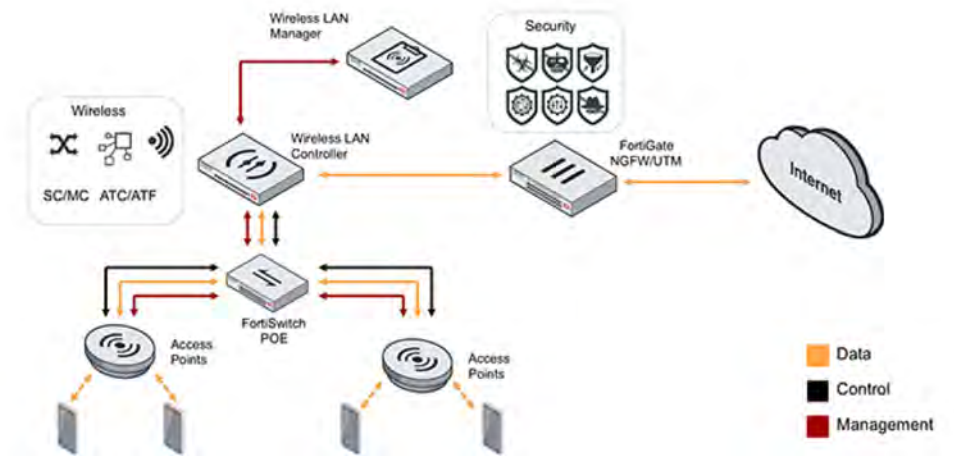
# FortiWLM

# Introducing FortiWLM



Platform for secure access applications focused on WLAN management, interference detection and security.

- Hardware platform to support Fortinet infrastructure wireless network applications
- Network management that supports monitoring, configuring and reporting of wireless network health
- RF interference detection and mitigation
- A choice of appliances sized to fit your business scale



# Other Information

# Virtual Appliance Platforms

	VMWare vSphere	Citrix Xen Server	Xen	KVM	Amazon AWS	Microsoft Hyper-V	Microsoft Azure	Oracle OPC	Google GCP
FortiGate-VM					/ #		/ #		
FortiManager-VM									
FortiAnalyzer-VM					/ #				
FortiWeb-VM					/ #				
FortiWeb Manager-VM									
FortiMail-VM									
FortiAuthenticator-VM									
FortiADC-VM									
FortiCache-VM									
FortiVoice-VM									
FortiRecorder-VM					#				
FortiSandbox-VM					#				
FortiSIEM									
FortiWAN-VM									

# FortiGuard Services



	App. Control	IPS	AV	IP/Domain Reputation	Web Filtering	Anti-spam	IOC	WAF	Others
FortiGate			+ Mobile AV				*		<ul style="list-style-type: none"> <li>• Security Audit Update **</li> <li>• FortiCloud Sandbox, incl. VOS** and CDR **</li> </ul>
FortiClient									<ul style="list-style-type: none"> <li>• Vulnerability Scan</li> </ul>
FortiSandbox									<ul style="list-style-type: none"> <li>• File Query</li> <li>• Engine Update</li> </ul>
FortiMail									<ul style="list-style-type: none"> <li>• Virus Outbreak</li> <li>• Dynamic Adult Image Analysis</li> </ul>
FortiWeb									<ul style="list-style-type: none"> <li>• Credential Stuffing</li> <li>• FortiCloud Sandbox, incl. Virus Outbreak and CDR</li> </ul>
FortiADC									
FortiCache									<ul style="list-style-type: none"> <li>• Content Analysis</li> </ul>
FortiDDOS									
FortiSIEM									
FortiAnalyzer									

The logo for FERTINET is displayed in a bold, white, sans-serif font. The letter 'F' is stylized with three horizontal bars. The letters 'E', 'R', 'T', 'I', 'N', and 'E' are solid. The final 'T' is also solid. A registered trademark symbol (®) is located to the right of the final 'T'. The logo is centered horizontally on a dark blue background that features a complex, white, isometric wireframe pattern of overlapping rectangular and cubic shapes.

**FERTINET®**