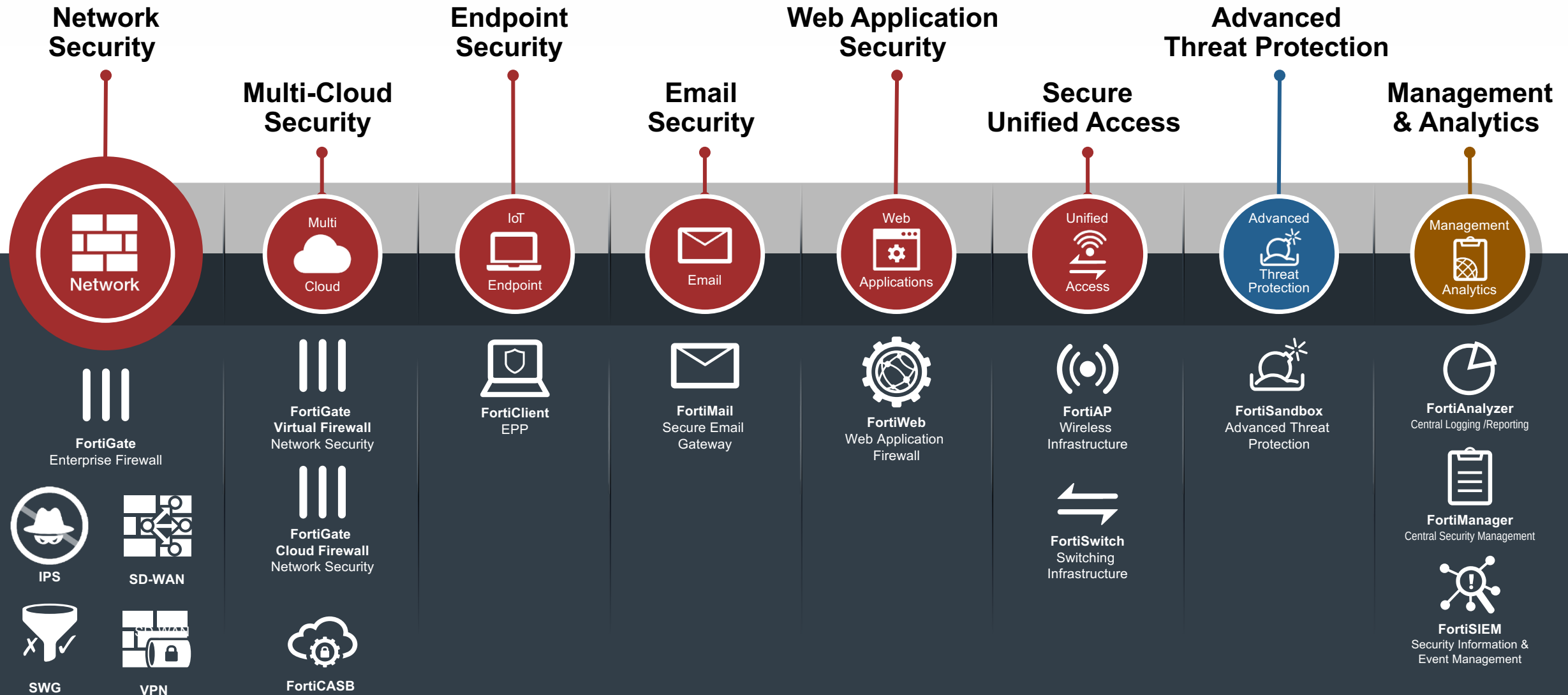
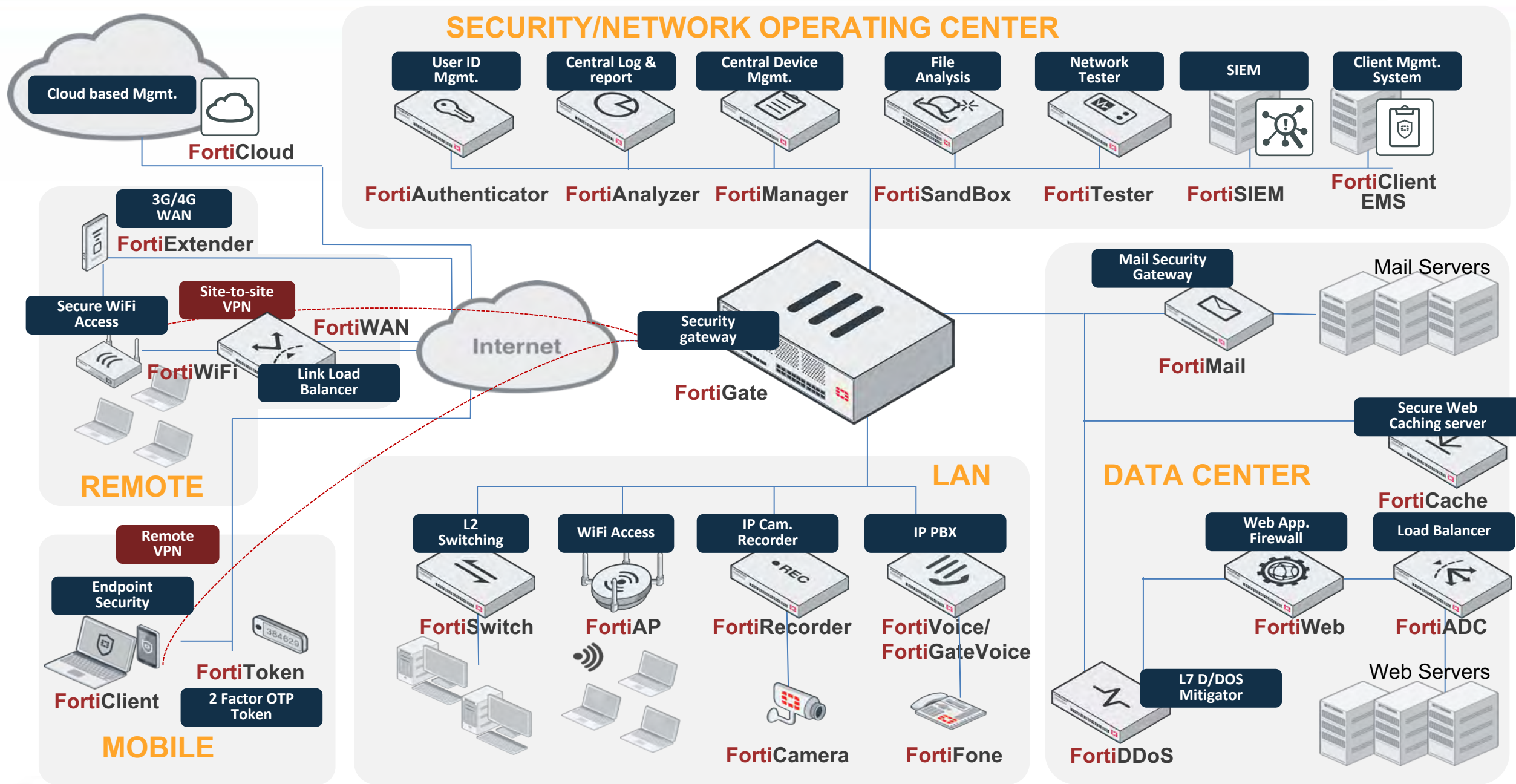


Fortinet Product Quick Guide

March, 2018

Complete Network Security Solution





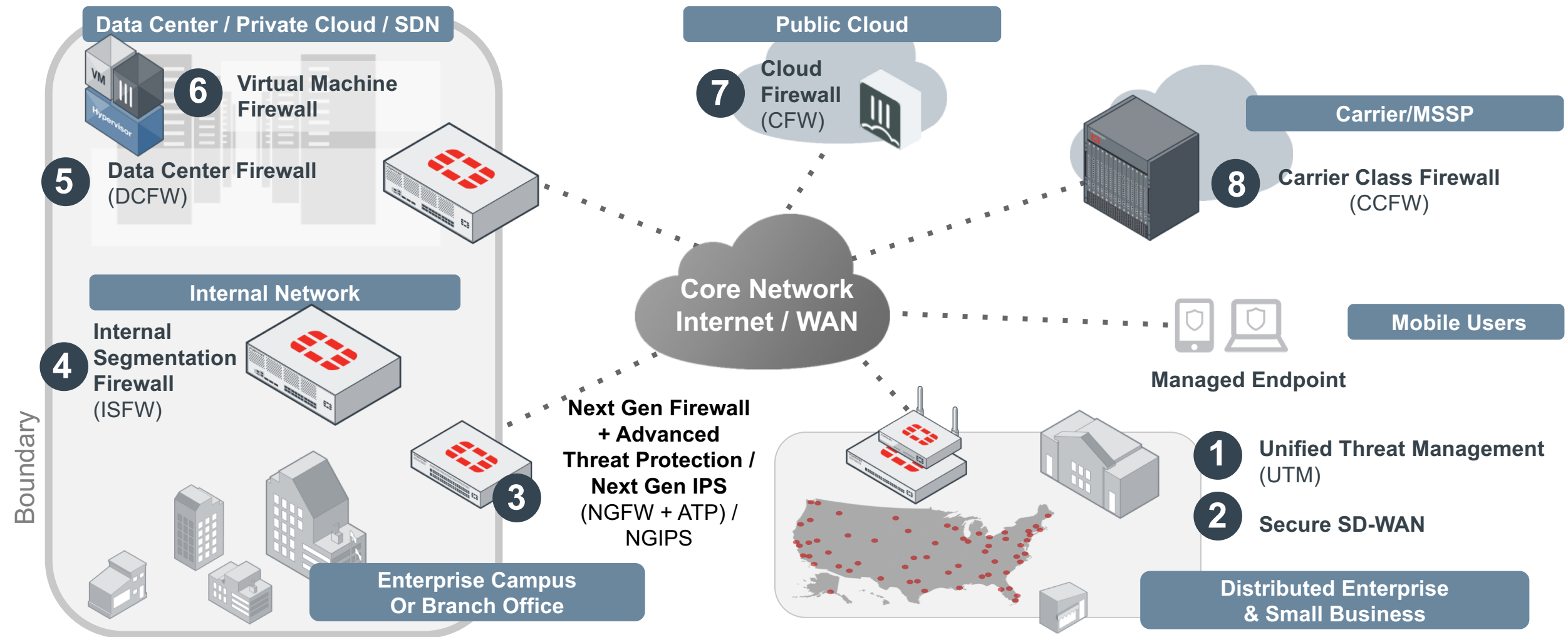
Content

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

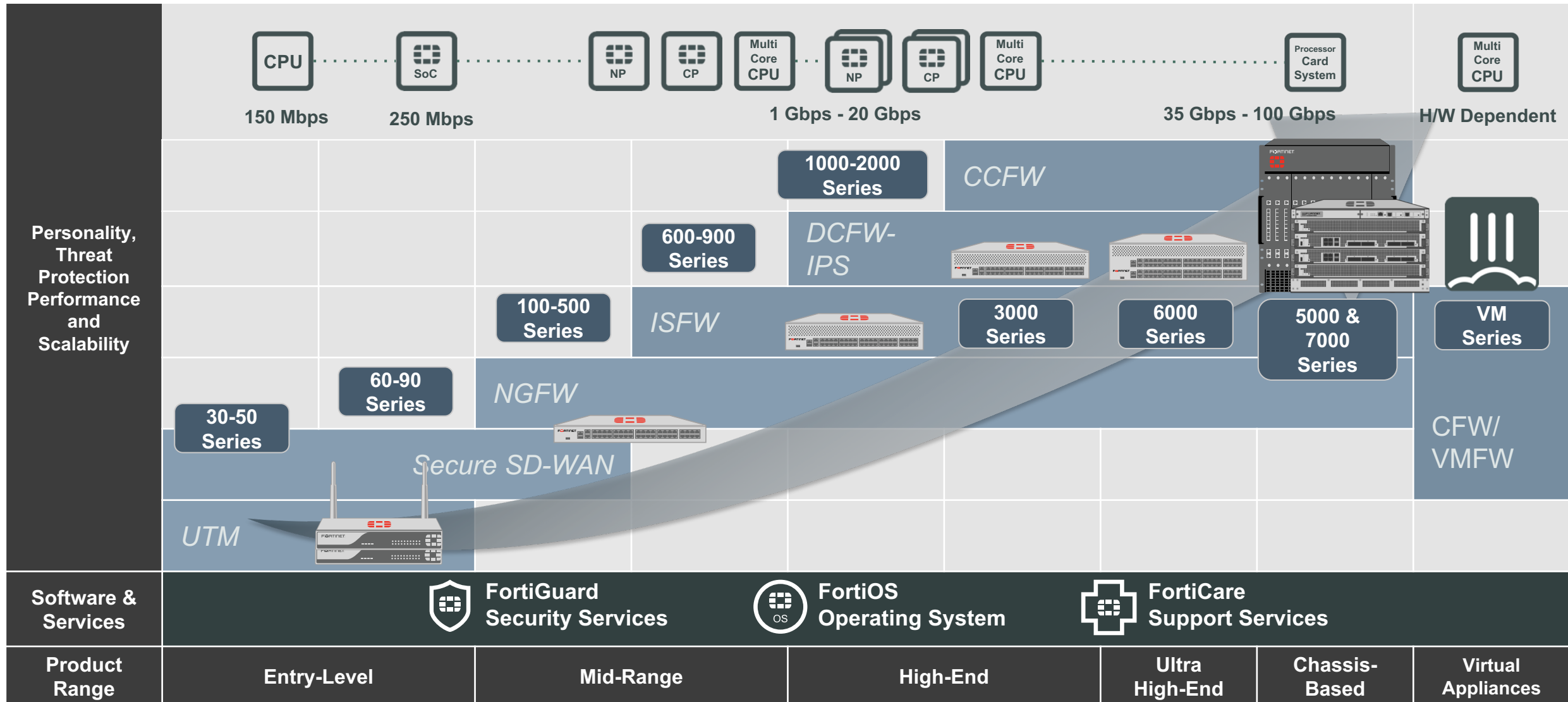


FortiGate/FortiWiFi

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**



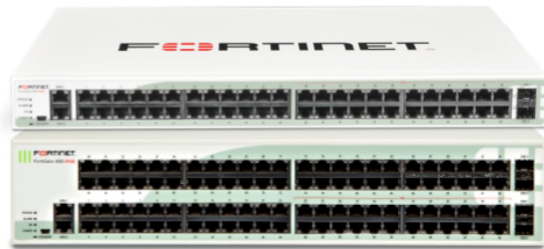
 **FG/FWF-60E Series**



 **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

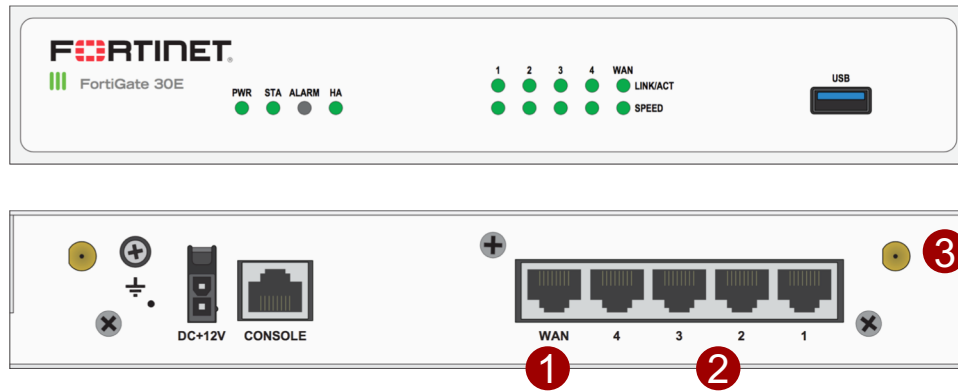
FortiGate Entry Level Series: Comparison

	FG-30E	FG-50E	FG-60D	FG-60E	FG80D	FG-80E	FG-70D/90D	FG-90E
Firewall (1518/512/64 byte UDP)	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
Concurrent Sessions	900,000	1.8 Mil	500,000	1.3 Mil	1.5 Mil	1.3 Mil	2 Mil	1.2 Mil
New Sessions/Sec	15,000	21,000	4,000	30,000	22, 000	30,000	4,000	27,500
IPSec VPN	75 Mbps	90 Mbps	1 Gbps	2 Gbps	200 Mbps	2.5 Gbps	1 Gbps	245 Mbps
IPS (Ent. Mix)	300 Mbps	350 Mbps	50 Mbps	400 Mbps	245 Mbps	450 Mbps	50 Mbps	470 Mbps
NGFW (Ent. Mix)	200 Mbps	220 Mbps	23 Mbps	250 Mbps	210 Mbps	360 Mbps	25 Mbps	375 Mbps
Threat Protection (Ent. Mix)	150Mbps	160 Mbps	20 Mbps	180 Mbps	190 Mbps	250 Mbps	22.5 Mbps	270 Mbps
Interfaces	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
Storage	-	32 GB (51E) 2x GB (52E)	-	128 GB (61E)	16 GB	128 GB (81E)	32GB (90D)	128 GB (91E)
Variants	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
Thick AP						
Wireless Controller						
#of WiFi radios	1	1	1x 2.4 Ghz 1x 5 Ghz	1	1	1
Supported Std	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
802.11n	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO	2x2 MIMO
Max wireless association rate total	300 Mbps	300 Mbps	300m + 867 Mbps	300 Mbps	867 Mbps	300 Mbps
SSID's (incl. reserved)	8	8	8	8	8	8
Max AP (Total/ Tunnel)	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



200 Mbps

NGFW Throughput



150 Mbps

Threat Protection Throughput

0.9 Million

Concurrent Sessions

15,000

New Sessions/Sec

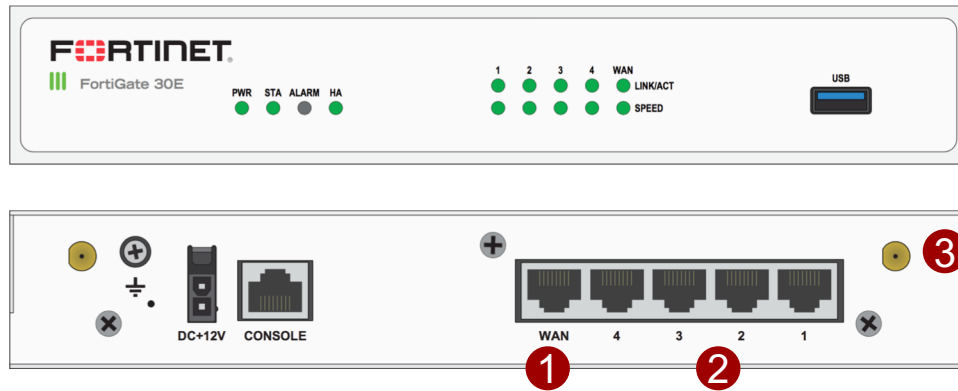


Small Business / Remote Office

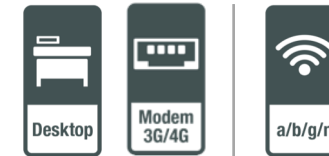
UTM / DEFW



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



200 Mbps

NGFW Throughput



150 Mbps

Threat Protection Throughput

0.9 Million

Concurrent Sessions

15,000

New Sessions/Sec

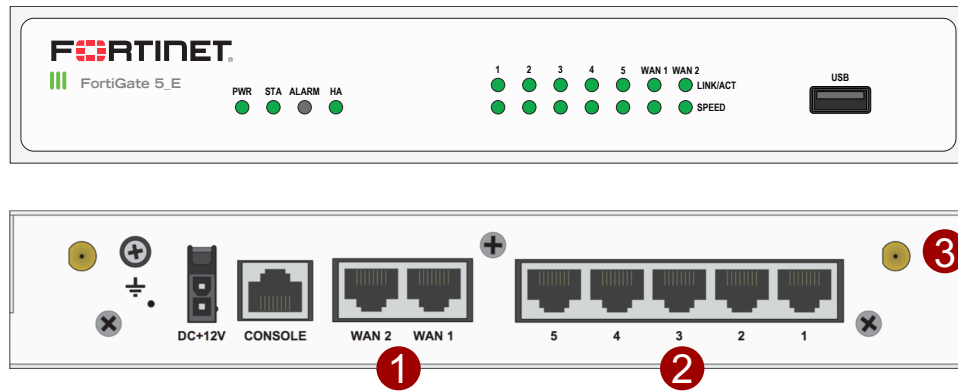


Small Business / Remote Office

UTM / DEFW



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

1.8 Million

Concurrent Sessions

21,000

New Sessions/Sec



350 Mbps

IPS Throughput



220 Mbps

NGFW Throughput



160 Mbps

Threat Protection Throughput

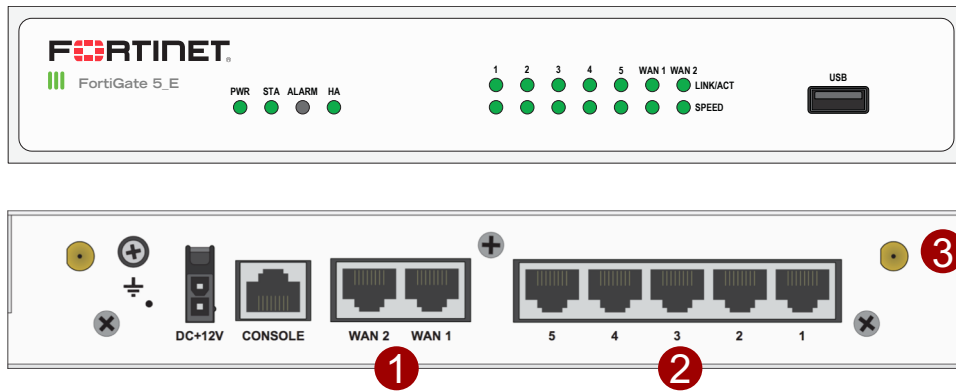


Small Business / Remote Office

UTM / DEFW



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



220 Mbps

NGFW Throughput



160 Mbps

Threat Protection Throughput

1.8 Million

Concurrent Sessions

21,000

New Sessions/Sec

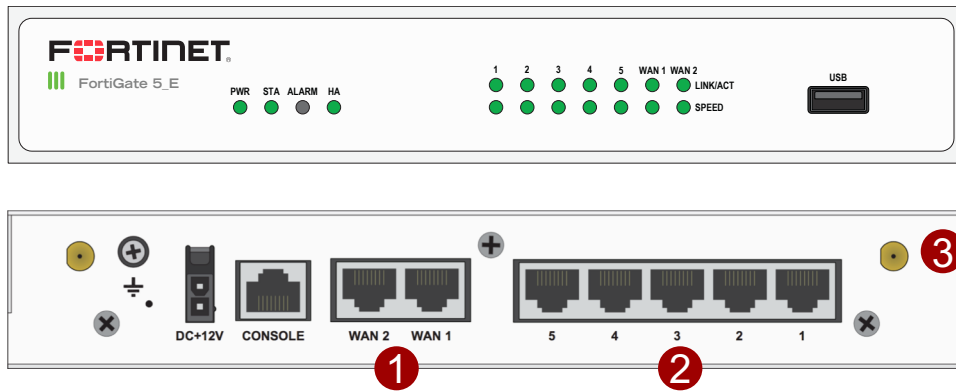


Small Business / Remote Office

UTM / DEFW



FortiGate 52E



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



2.5 Gbps

Firewall throughput

1.8 Million

Concurrent Sessions

21,000

New Sessions/Sec



350 Mbps

IPS Throughput



220 Mbps

NGFW Throughput



160 Mbps

Threat Protection Throughput

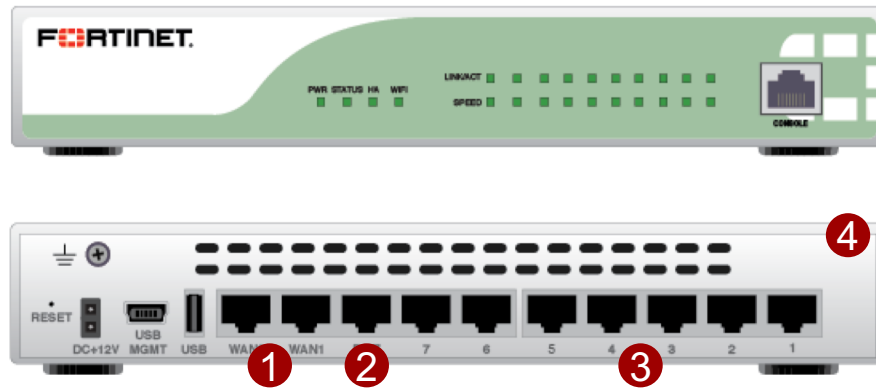


Small Business / Remote Office

DEFW



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

500,000

Concurrent Sessions

4,000

New Sessions/Sec



50 Mbps

IPS Throughput



23 Mbps

NGFW Throughput



20 Mbps

Threat Protection Throughput

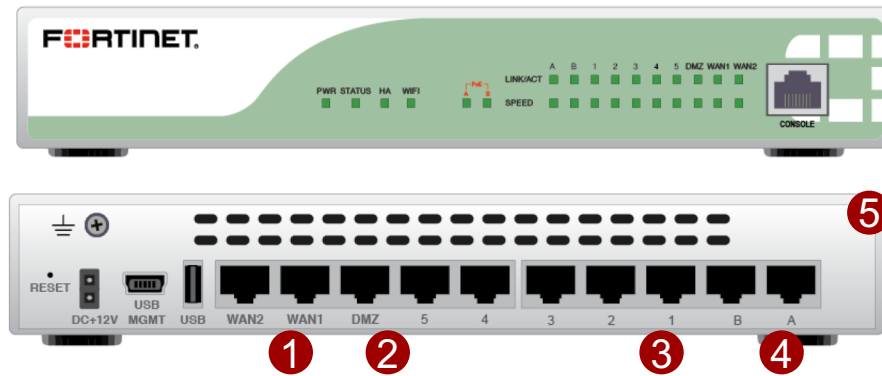


Small Business / Remote Office

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

500,000

Concurrent Sessions

4,000

New Sessions/Sec



50 Mbps

IPS Throughput



23 Mbps

NGFW Throughput



20 Mbps

Threat Protection Throughput

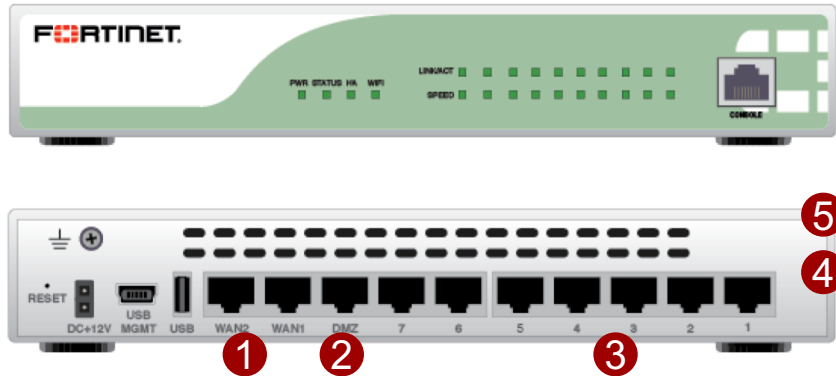


Small Business / Remote Office

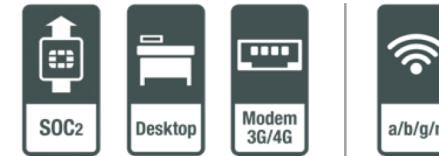
DEFW



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

500,000

Concurrent Sessions

4,000

New Sessions/Sec



50 Mbps

IPS Throughput



23 Mbps

NGFW Throughput



20 Mbps

Threat Protection Throughput

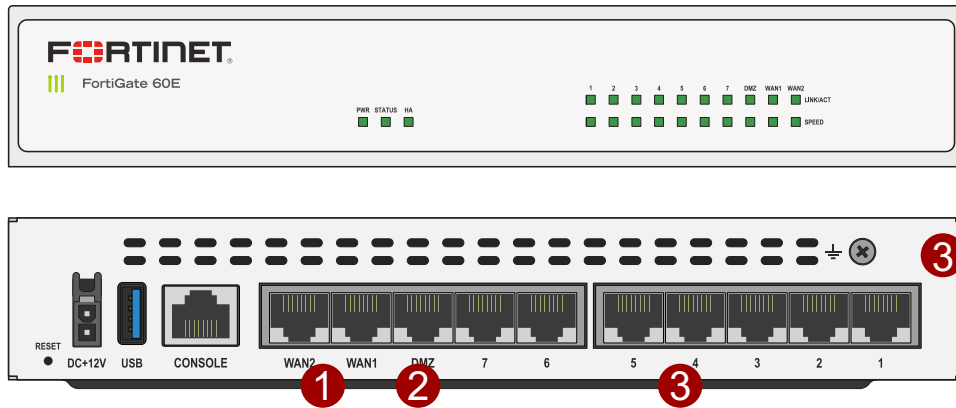


Small Business / Remote Office

DEFW



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

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec



400 Mbps

IPS Throughput



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

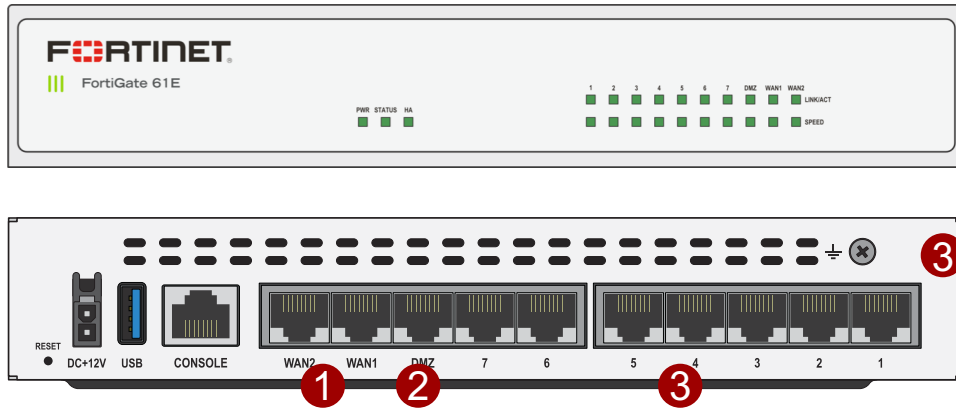


Small Business / Remote Office

DEFW



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

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec



400 Mbps

IPS Throughput



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

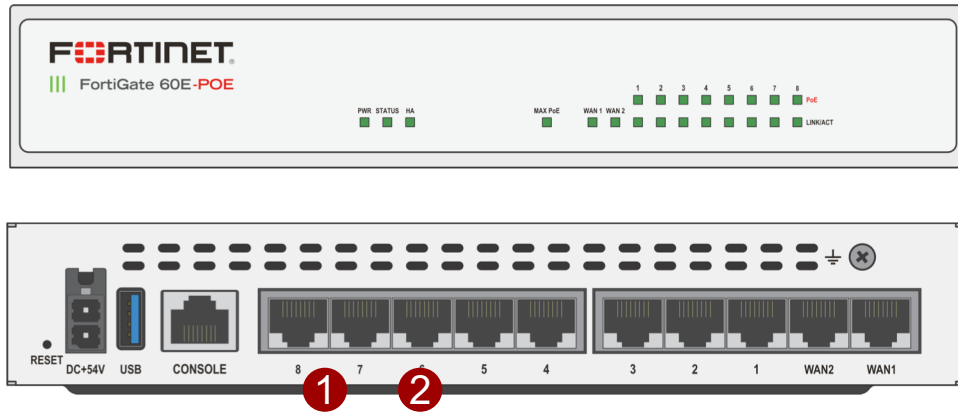


Small Business / Remote Office

DEFW



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



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec

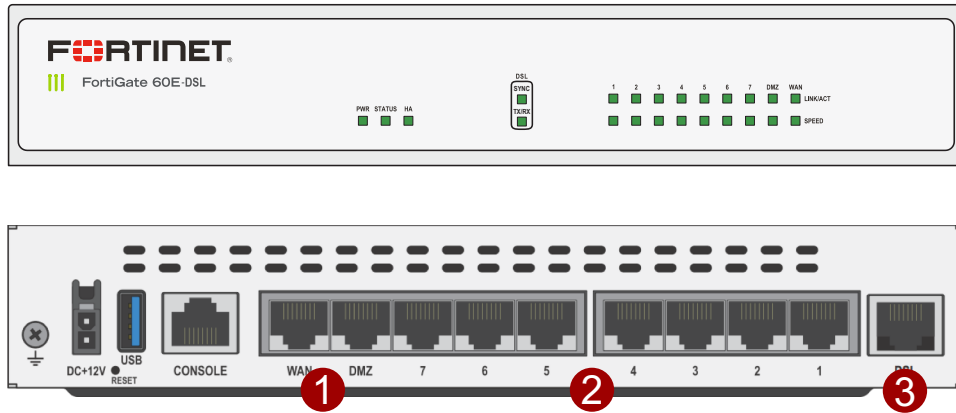


Small Business / Remote Office

DEFW



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

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec



400 Mbps

IPS Throughput



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

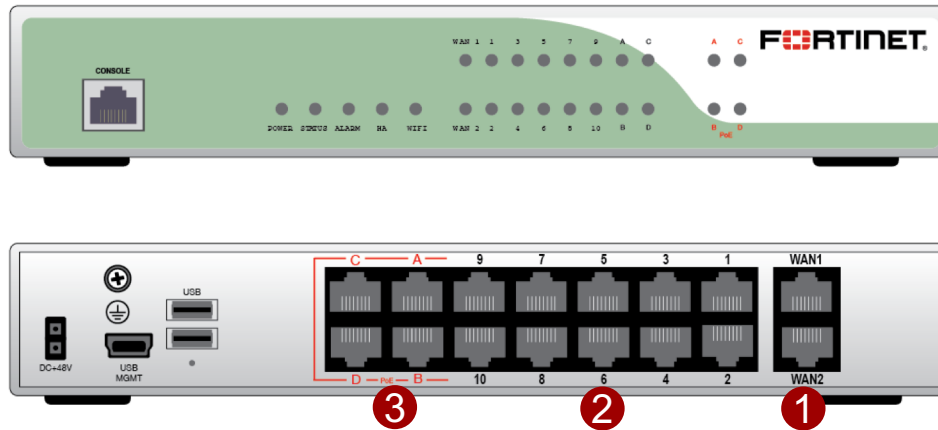


Small Business / Remote Office

DEFW



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

1.5 Million

Concurrent Sessions

4,000

New Sessions/Sec



50 Mbps

IPS Throughput



30 Mbps

NGFW Throughput



25 Mbps

Threat Protection Throughput

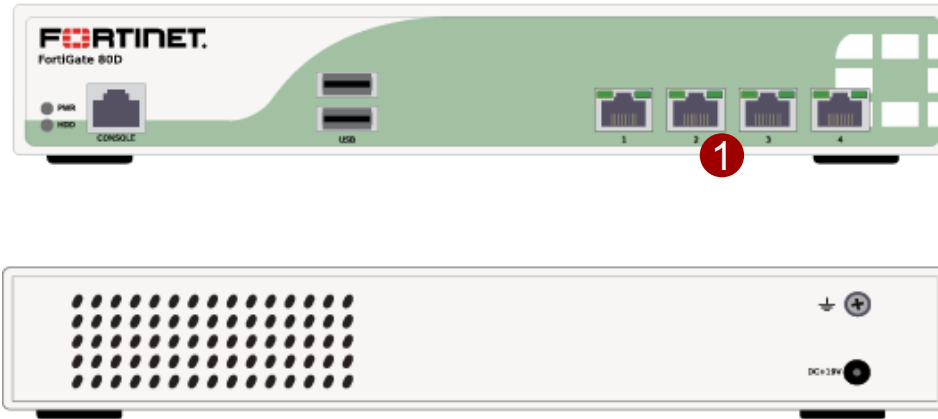


Small Business / Remote Office

DEFW



FortiGate 80D



① 4x GE RJ45 Ports



1.3 Gbps

Firewall throughput

1.5 Million

Concurrent Sessions

22,000

New Sessions/Sec



245 Mbps

IPS Throughput



210 Mbps

NGFW Throughput



190 Mbps

Threat Protection Throughput

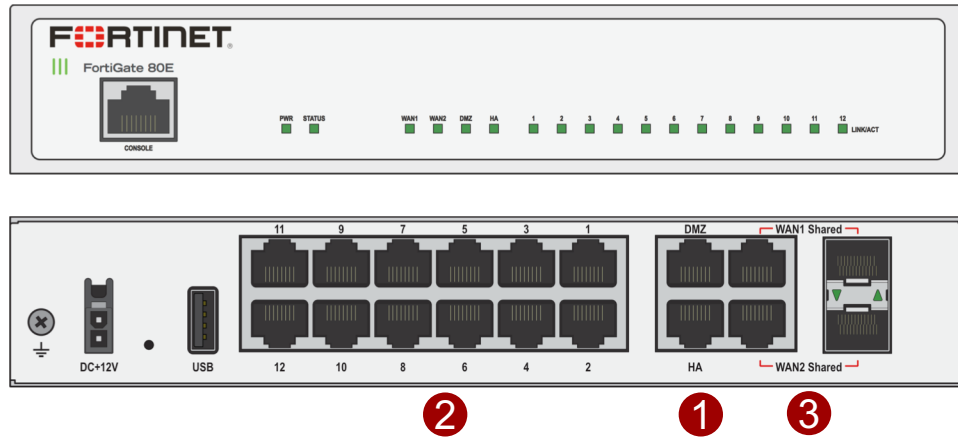


Small Business / Remote Office

DEFW



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



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec

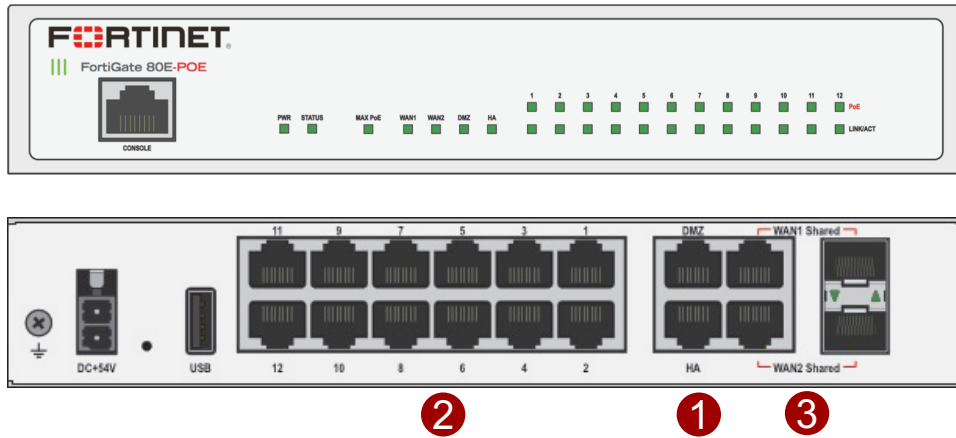


Small Business / Remote Office

DEFW



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



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput

1.3 Million

Concurrent Sessions

30,000

New Sessions/Sec

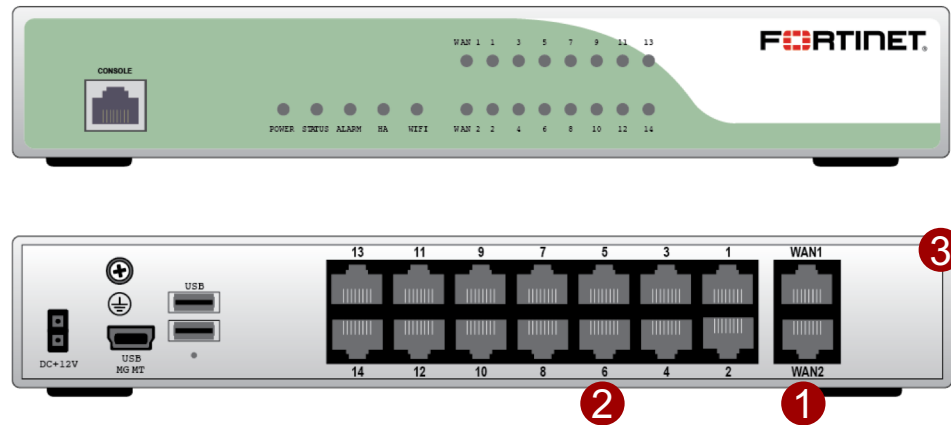


Small Business / Remote Office

DEFW



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



30 Mbps

NGFW Throughput



25 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

4,000

New Sessions/Sec

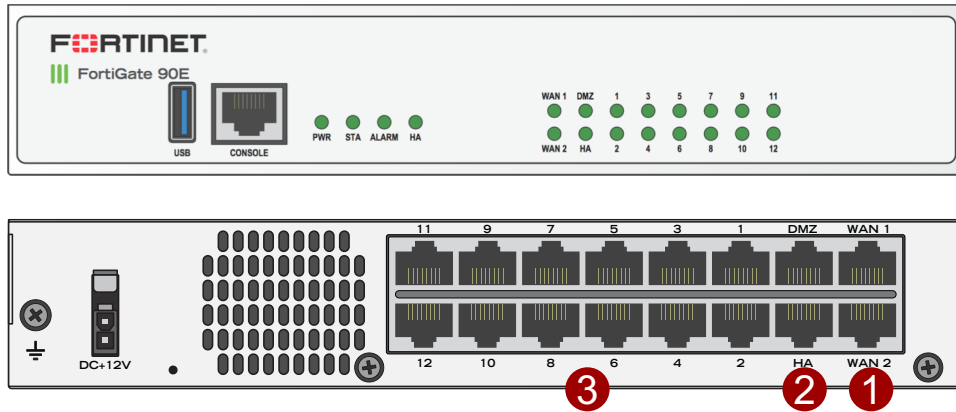


Small Business / Remote Office

DEFW



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

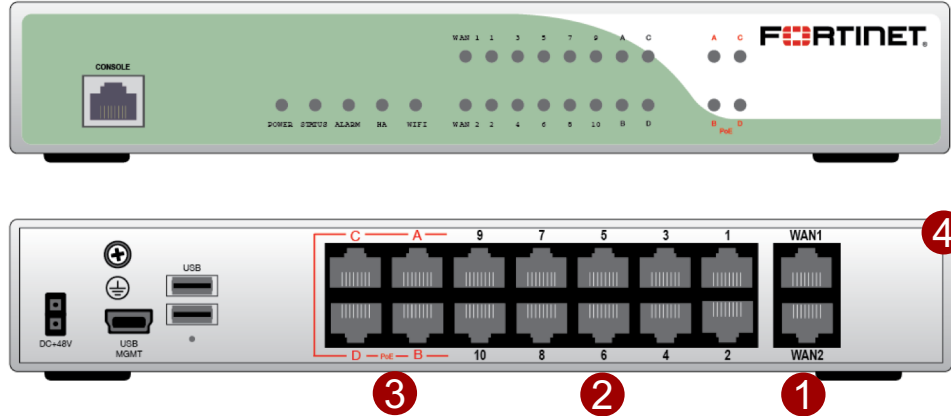


Small Business / Remote Office

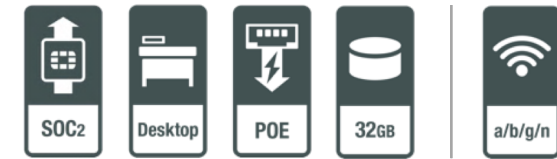
DEFW



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



30 Mbps

NGFW Throughput



25 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

4,000

New Sessions/Sec

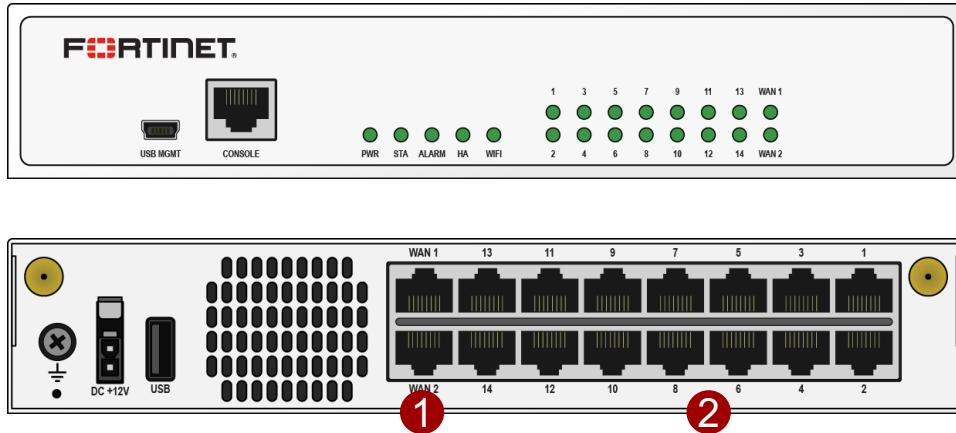


Small Business / Remote Office

DEFW



FortiWiFi 92D



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



2.0 Gbps

Firewall throughput

1.5 Million

Concurrent Sessions

22,000

New Sessions/Sec



260 Mbps

IPS Throughput



230 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

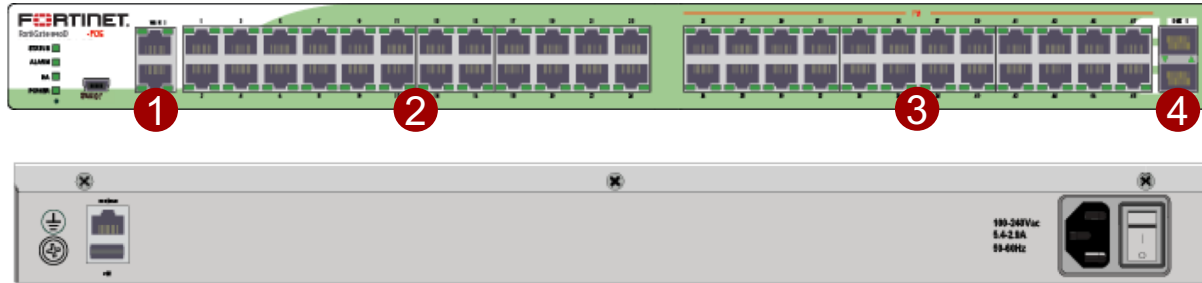


Small Business / Remote Office

DEFW



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

2 Million

Concurrent Sessions

4,000

New Sessions/Sec



50 Mbps

IPS Throughput



30 Mbps

NGFW Throughput



25 Mbps

Threat Protection Throughput

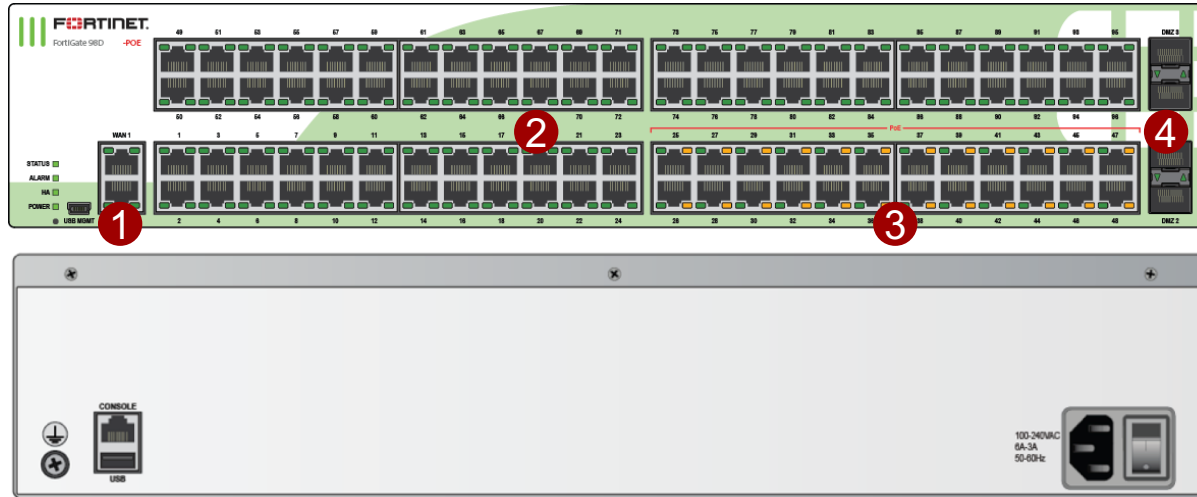


Small Business / Remote Office

DEFW



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



30 Mbps

NGFW Throughput



25 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

4,000

New Sessions/Sec

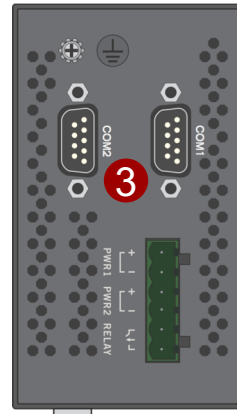
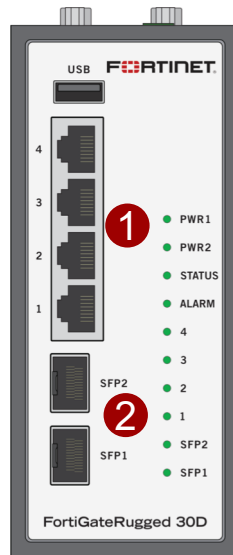


Small Business / Remote Office

DEFW



FortiGate Rugged-30D



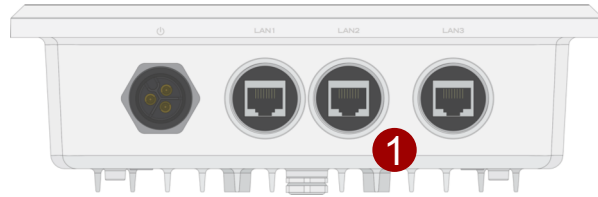
- ① 4x GE RJ45 Ports
- ② 2x GE SFP Slots
- ③ 2x DB9 Serial Port



Hardware Performance

Firewall Throughput (1518b)	900 Mbps	IPS Throughput	230 Mbps
Firewall Latency	70 µs	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



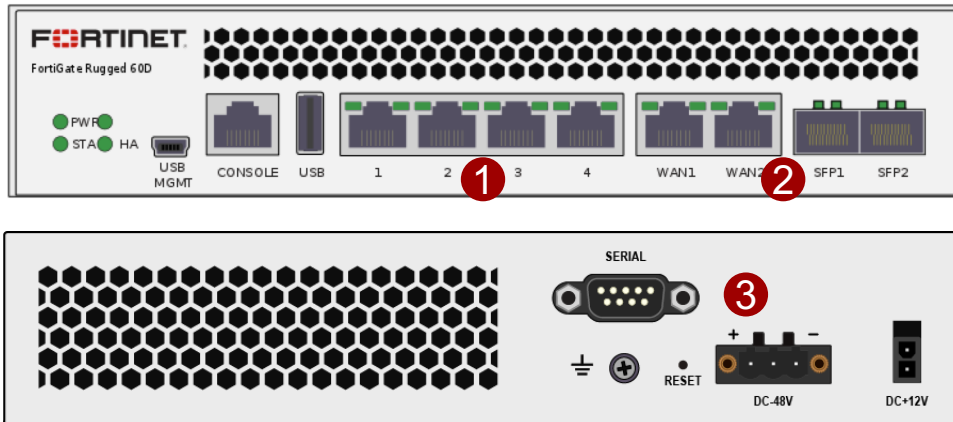
① 3x GE RJ45 Ports



Hardware Performance

Firewall Throughput (1518b)	550 Mbps	IPS Throughput	230 Mbps
Firewall Latency	90 μ 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



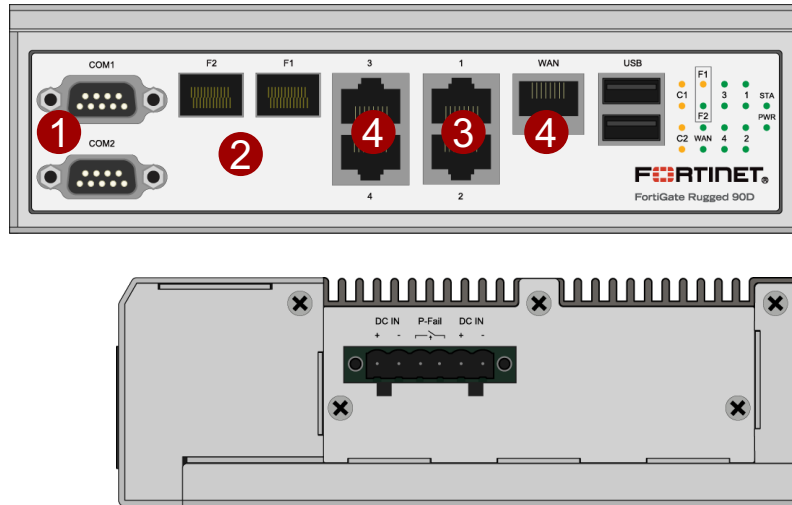
- ① 4x GE RJ45 Ports
- ② 2x Shared Media Pairs
- ③ 1x DB9 Serial Port



Hardware Performance

Firewall Throughput (1518/512/64)	1.5 / 1.5 / 1.5 Gbps	IPS Throughput	200 Mbps
Firewall Latency	4 μ s	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

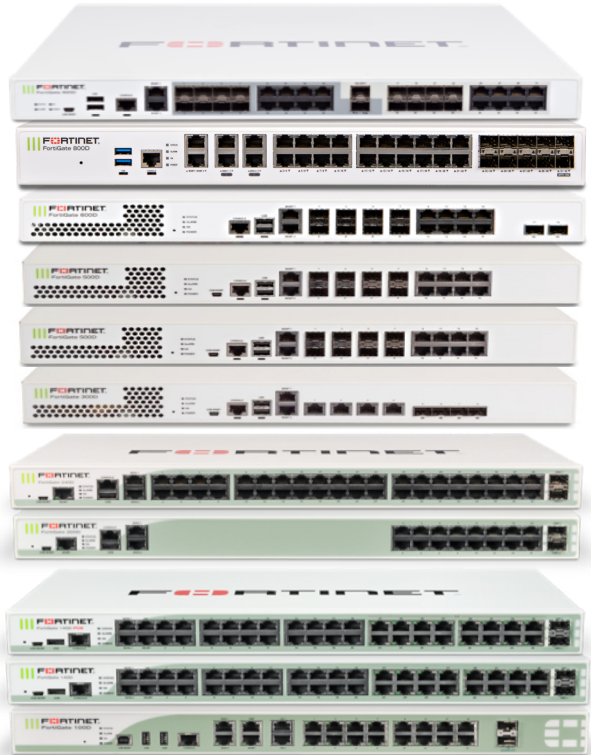
Firewall Throughput (1518/512/64)	2 Gbps	IPS Throughput	1.1 Gbps
Firewall Latency	51 μ s	NGFW Throughput	TBA
Concurrent Sessions	2.5 Million	Virtual Domains (Default / Max)	10 / 10
New Sessions/Sec	20,000	Max Number of FortiAPs (Total/Tunnel)	32 / 16
Firewall Policies	5,000	Max Number of FortiTokens	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
Firewall (1518/512/64 byte UDP)	2500* Mbps	7.4 / 7.4 / 4.4 Gbps	3 / 3 / 3 Gbps	4 / 4 / 4 Gbps	20 / 20 / 9 Gbps
Concurrent Sessions	2 Mil	2 Mil	2 Mil	2 Mil	2 Mil
New Sessions/Sec	22,000	30,000	77,000	77,000	135,000
IPSec VPN	380 Mbps	4 Gbps	1.3 Gbps	1.3 Gbps	9 Gbps
IPS (Ent. Mix)	400 Mbps	500 Mbps	420 Mbps	350 Mbps	2.2 Gbps
NGFW (Ent. Mix)	250 Mbps	360 Mbps	330 Mbps	310 Mbps	1.8 Gbps
Threat Protection (Ent. Mix)	200 Mbps	250 Mbps	310 Mbps	310 Mbps	1.2 Gbps
Interfaces	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
Storage	32GB	480 GB (101E)	64 GB	64 GB	480 GB (201E)
Variants	LENC, high port density, PoE	-	PoE	PoE	-

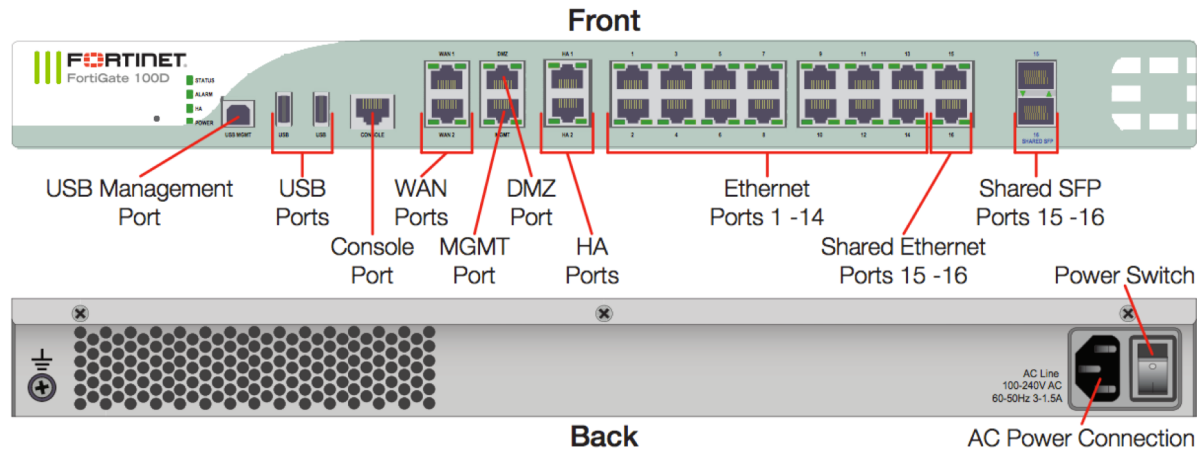
FortiGate Mid Range Devices: Comparison

	FGT-300D	FGT-300E Series	FGT-400D	FGT-500D	FGT-500E Series
Firewall (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
Concurrent Sessions	4 Mil	4 Mil	4 Mil	6 Mil	8 Mil
New Sessions/Sec	200,000	300,000	200,000	250,000	300,000
IPSec VPN	7 Gbps	20 Gbps	14 Gbps	14 Gbps	20 Gbps
IPS (Ent. Mix)	2 Gbps	5 Gbps	2 Gbps	3.5 Gbps	5.2 Gbps
NGFW (Ent. Mix)	1.7 Gbps	3.5 Gbps	1.7 Gbps	2.5 Gbps	5 Gbps
Threat Protection (Ent. Mix)	1.5 Gbps	3 Gbps	1.5 Gbps	2 Gbps	4.7 Gbps
Interfaces	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
Storage	120 GB	480 GB (301E)	-	120 GB	480 GB (301E)
Variants	LENC	-	-	-	-

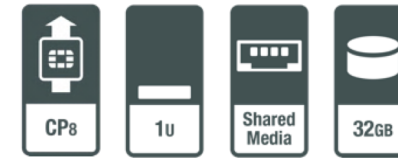
FortiGate Mid Range Devices: Comparison

	FG-600D	FG-800D	FG-900D
Firewall (1518/512/64 byte UDP)	36 / 36 / 24 Gbps	36 / 36 / 22 Gbps	52 / 52 / 33 Gbps
Concurrent Sessions	5.5 Mil	5 Mil	11 Mil
New Sessions/Sec	270,000	280,000	280,000
IPSec VPN	20 Gbps	20 Gbps	25 Gbps
IPS (Ent. Mix)	4 Gbps	4.2 Gbps	4.2 Gbps
NGFW (Ent. Mix)	3.8 Gbps	4 Gbps	4 Gbps
Threat Protection (Ent. Mix)	3 Gbps	3 Gbps	3 Gbps
Interfaces	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
Storage	120 GB	240 GB	256 GB
Variants	-	-	-

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



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

22,000

New Sessions/Sec

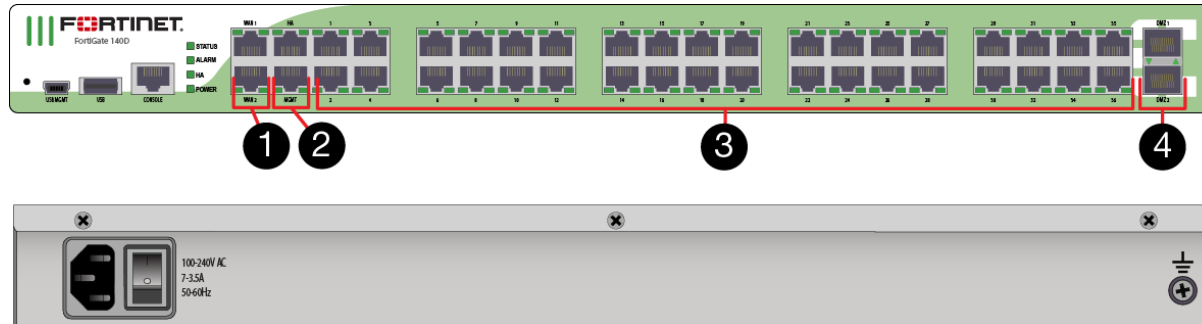


Small Business / Branch Office

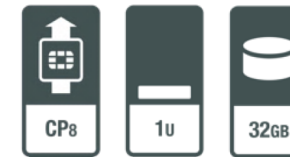
DEFW / NGFW



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

2 Million

Concurrent Sessions

22,000

New Sessions/Sec



400 Mbps

IPS Throughput



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

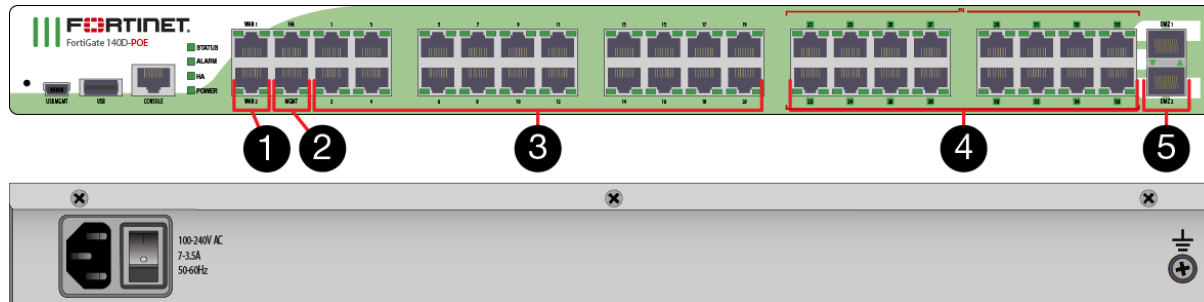


Small Business / Branch Office

DEFW / NGFW



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



250 Mbps

NGFW Throughput



200 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

22,000

New Sessions/Sec

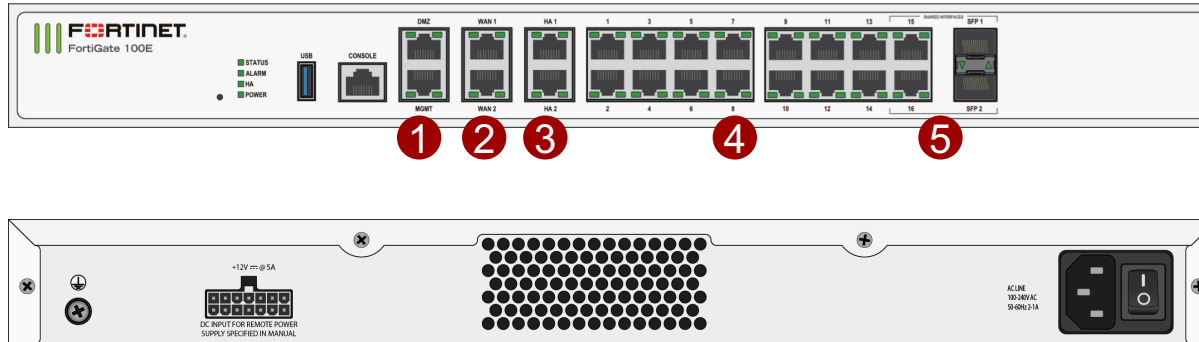


Small Business / Branch Office

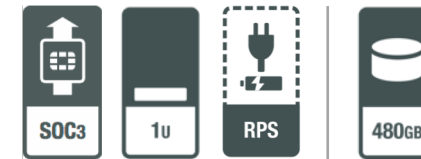
DEFW / NGFW



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

2 Million

Concurrent Sessions

30,000

New Sessions/Sec



500 Mbps

IPS Throughput



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput

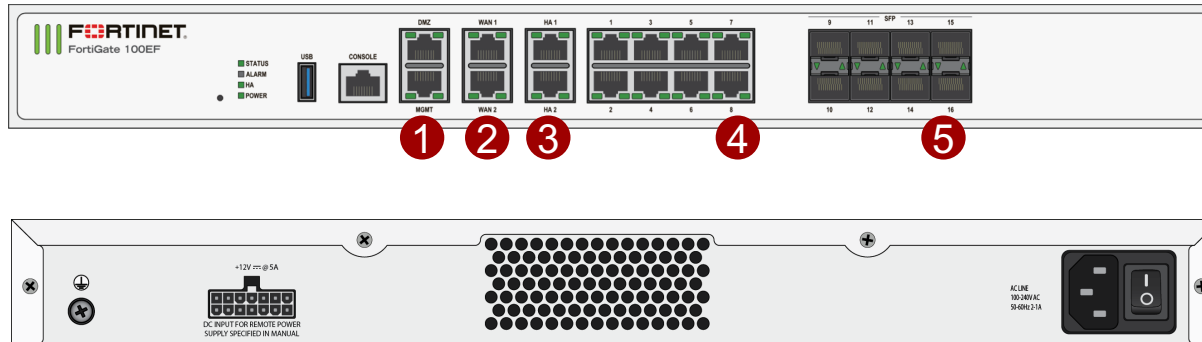


Small Business / Branch Office

DEFW / NGFW



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

2 Million

Concurrent Sessions

30,000

New Sessions/Sec



500 Mbps

IPS Throughput



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput

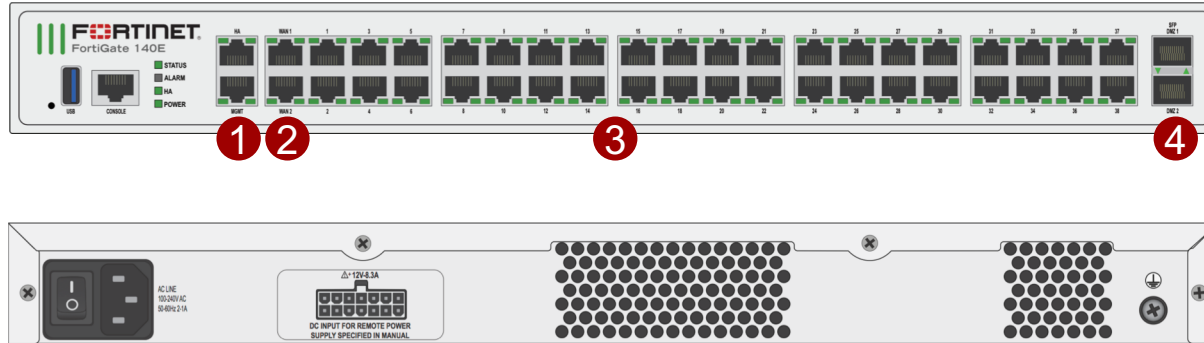


Small Business / Branch Office

DEFW / NGFW



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

2 Million

Concurrent Sessions

30,000

New Sessions/Sec



500 Mbps

IPS Throughput



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput

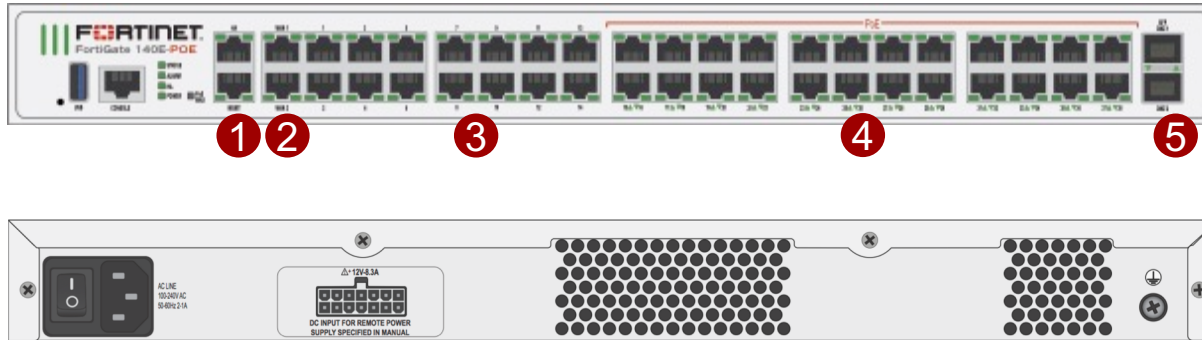


Small Business / Branch Office

DEFW / NGFW



FortiGate 140E-POE



- ① 2 x GE RJ45 MGMT/HAPorts
- 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

2 Million

Concurrent Sessions

30,000

New Sessions/Sec



500 Mbps

IPS Throughput



360 Mbps

NGFW Throughput



250 Mbps

Threat Protection Throughput



Small Business / Branch Office

DEFW / NGFW



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



330 Mbps

NGFW Throughput



310 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

77,000

New Sessions/Sec

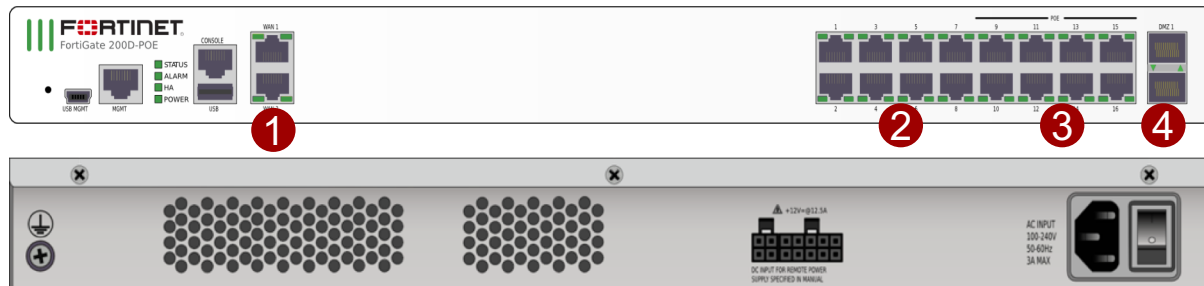


Small Business / Branch Office

DEFW / NGFW



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



330 Mbps

NGFW Throughput



310 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

77,000

New Sessions/Sec

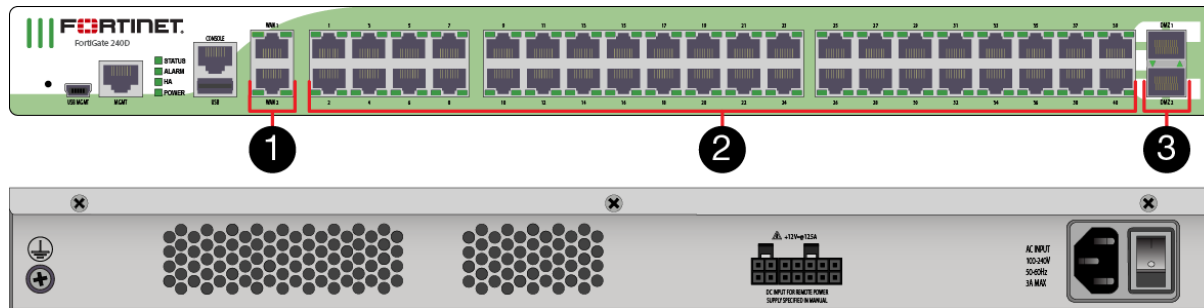


Small Business / Branch Office

DEFW / NGFW



FortiGate 240D



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



4 Gbps

Firewall throughput

2 Million

Concurrent Sessions

77,000

New Sessions/Sec



420 Mbps

IPS Throughput



330 Mbps

NGFW Throughput



310 Mbps

Threat Protection Throughput



Small Business / Branch Office

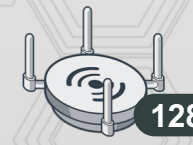
DEFW / NGFW



600



1,000

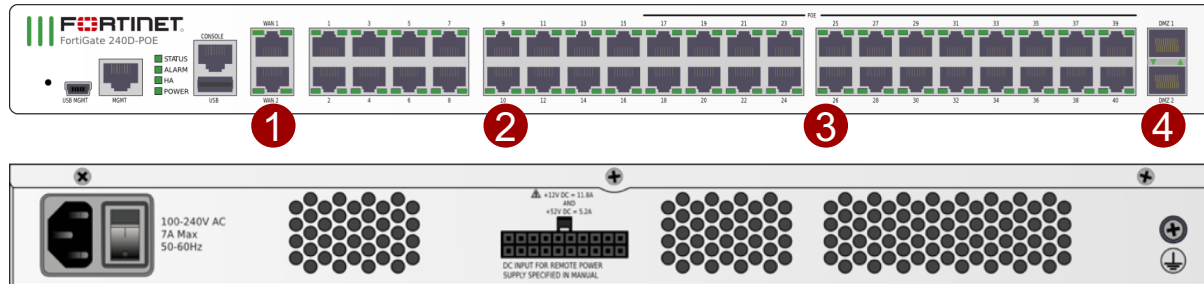


128



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



330 Mbps

NGFW Throughput



310 Mbps

Threat Protection Throughput

2 Million

Concurrent Sessions

77,000

New Sessions/Sec

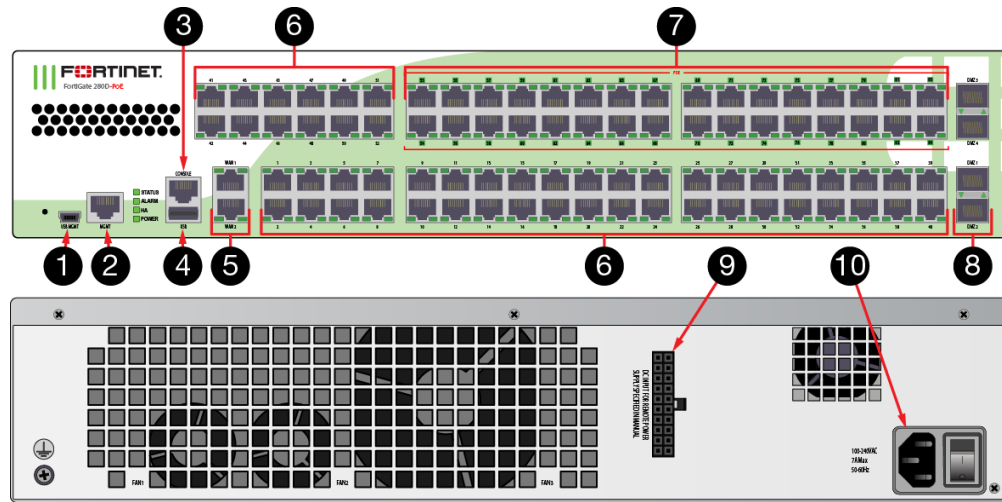


Small Business / Branch Office

DEFW / NGFW



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



330 Mbps
NGFW Throughput



310 Mbps
Threat Protection Throughput

2 Million
Concurrent Sessions

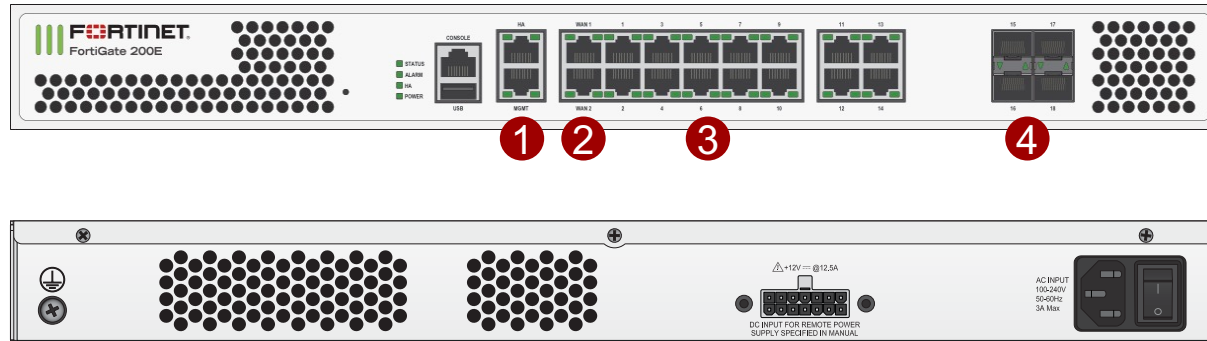
77,000
New Sessions/Sec



Small Business / Branch Office
DEFW / NGFW



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 Million

Concurrent Sessions

135,000

New Sessions/Sec



2.2 Gbps

IPS Throughput



1.8 Gbps

NGFW Throughput



1.2 Gbps

Threat Protection Throughput

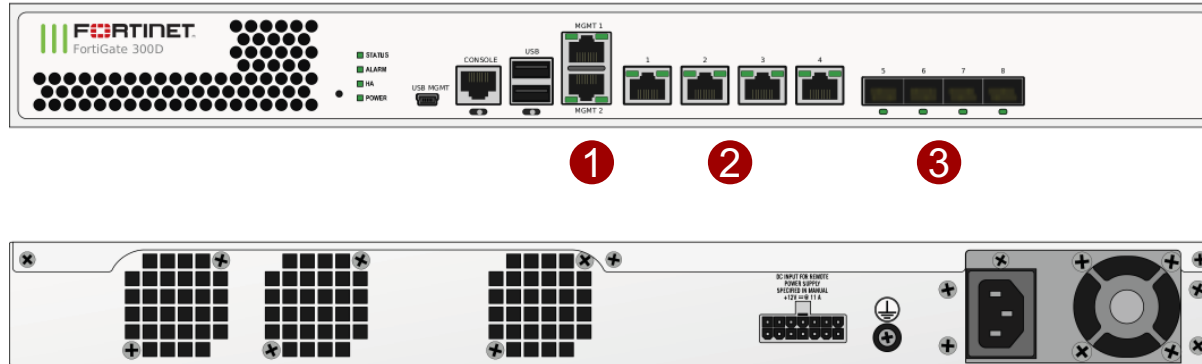


Small Business / Branch Office

DEFW / NGFW



FortiGate 300D



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



8 Gbps

Firewall throughput

4 Million

Concurrent Sessions

200,000

New Sessions/Sec



2 Gbps

IPS Throughput



1.7 Gbps

NGFW Throughput



1.5 Gbps

Threat Protection Throughput

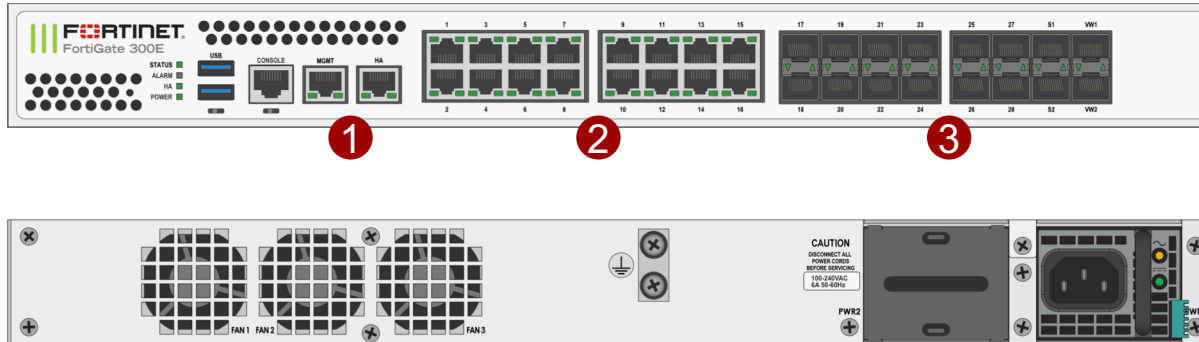


Branch Office / Mid Enterprise

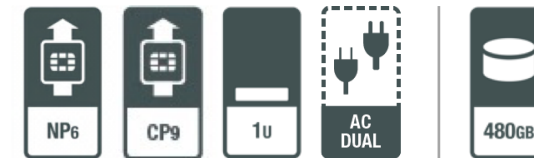
DEFW / NGFW



FortiGate 300/301E



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



32 Gbps

Firewall throughput



5 Gbps

IPS Throughput



3.5 Gbps

NGFW Throughput



3 Gbps

Threat Protection Throughput

4 Million

Concurrent Sessions

300,000

New Sessions/Sec

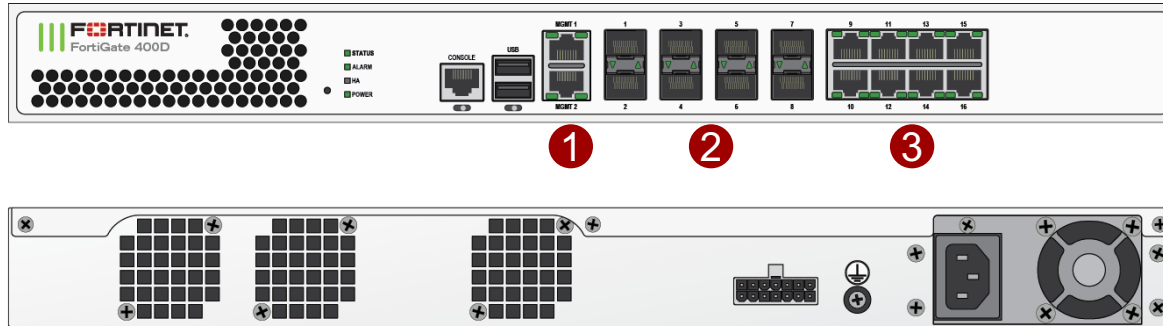


Small Business / Branch Office

DEFW / NGFW



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

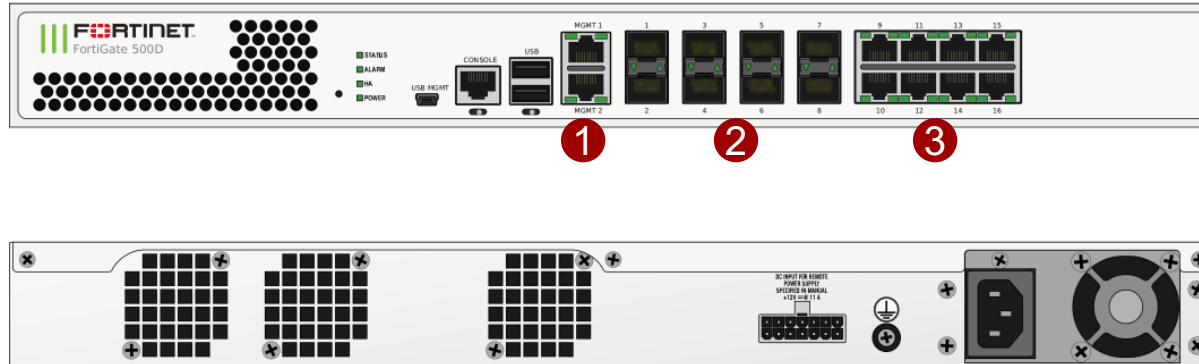


Branch Office / Mid Enterprise

DEFW / NGFW



FortiGate 500D



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



16 Gbps

Firewall throughput

6 Million

Concurrent Sessions

250,000

New Sessions/Sec



3.5 Gbps

IPS Throughput



2.5 Gbps

NGFW Throughput



2 Gbps

Threat Protection Throughput

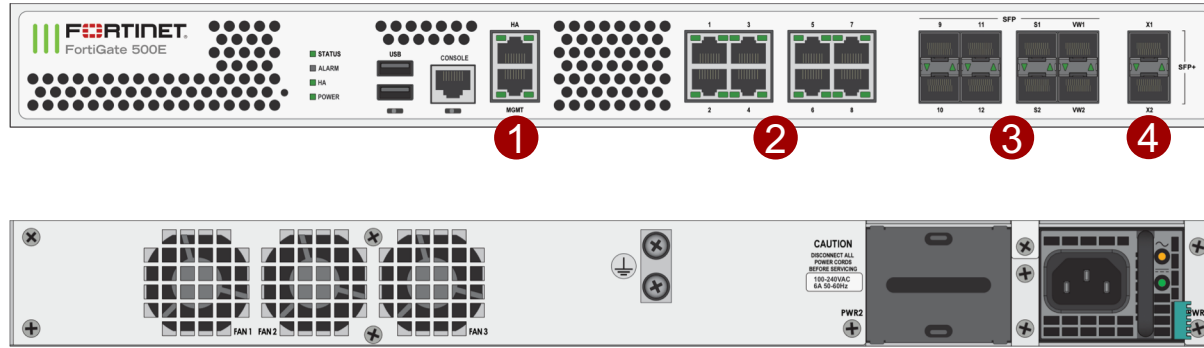


Branch Office / Mid Enterprise

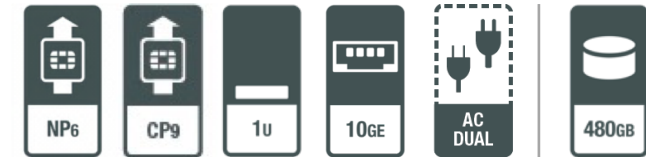
DEFW / NGFW



FortiGate 500/501E



- ① 2 x GE RJ45 MGMT/HAPorts
- 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



5 Gbps

NGFW Throughput



4.7 Gbps

Threat Protection Throughput

8 Million

Concurrent Sessions

300,000

New Sessions/Sec

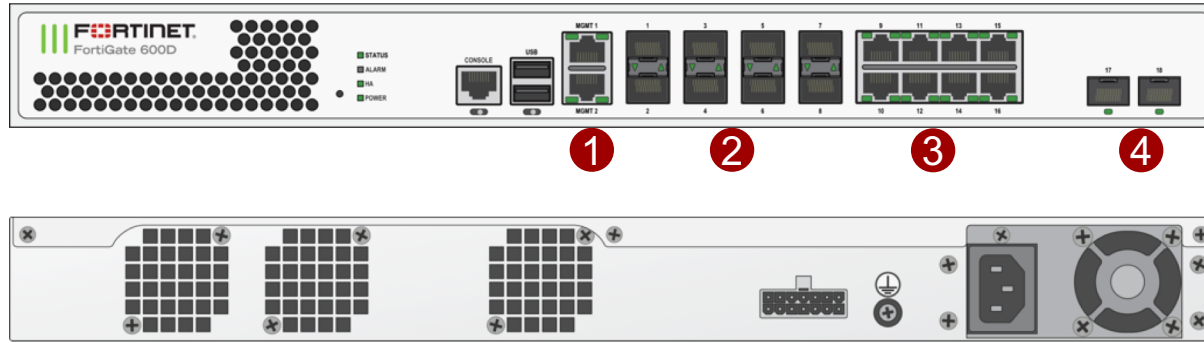


Small Business / Branch Office

DEFW / NGFW



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



3.8 Gbps

NGFW Throughput



3 Gbps

Threat Protection Throughput

5.5 Million

Concurrent Sessions

270,000

New Sessions/Sec



Branch Office / Mid Enterprise

NGFW / ISFW



2,000



1,000

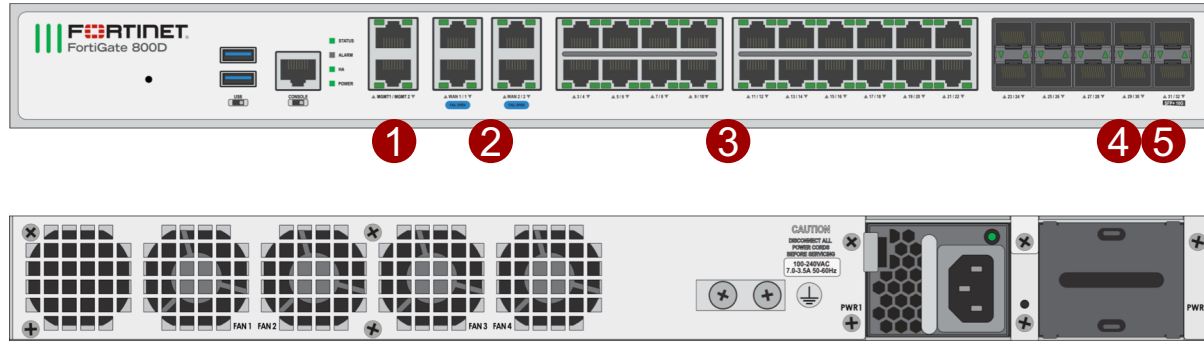


1,024

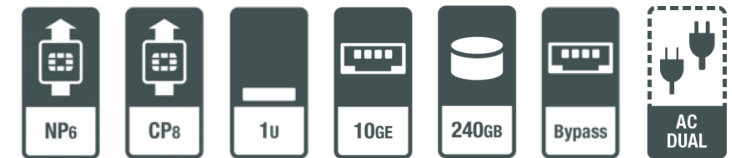


64

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

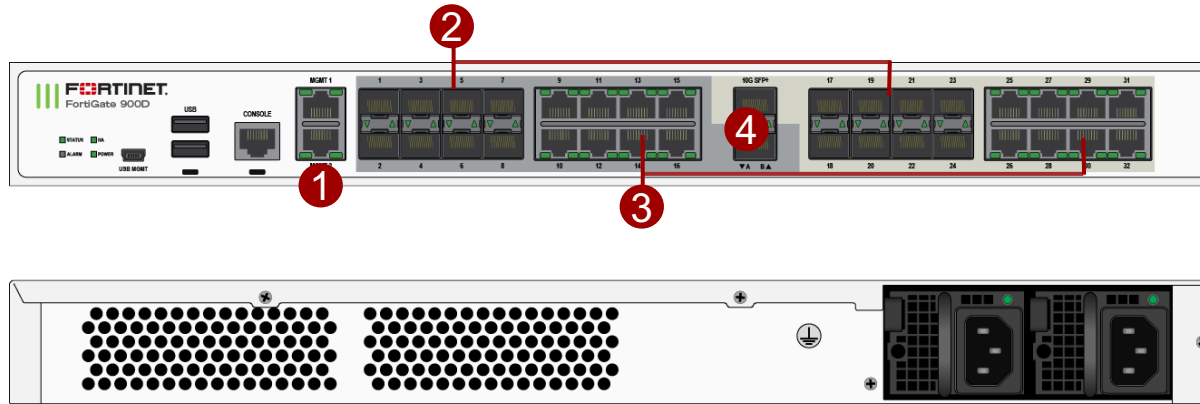


Branch Office / Mid Enterprise

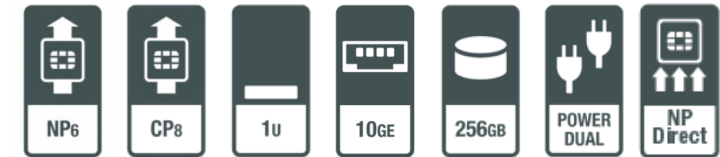
NGFW / ISFW



FortiGate 900D



- 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

11 Million

Concurrent Sessions

280,000

New Sessions/Sec



4.2 Gbps

IPS Throughput



4 Gbps

NGFW Throughput



3 Gbps

Threat Protection Throughput



Branch Office / Mid Enterprise

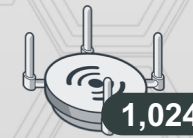
NGFW / ISFW



2,000



1,000



1,024

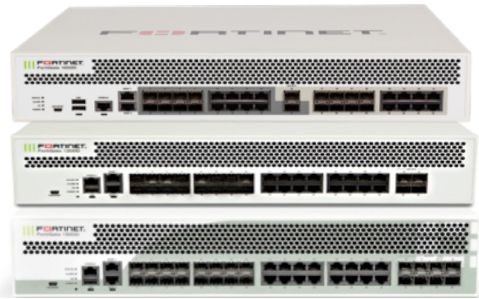


64

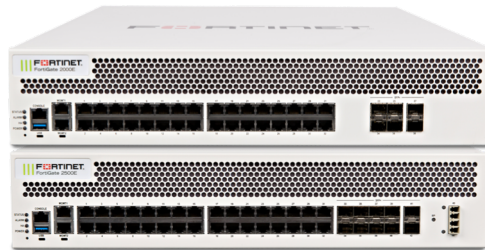
FortiGate High End Series



Data Center Firewall / Large Enterprise NGFW with High Speed Interfaces

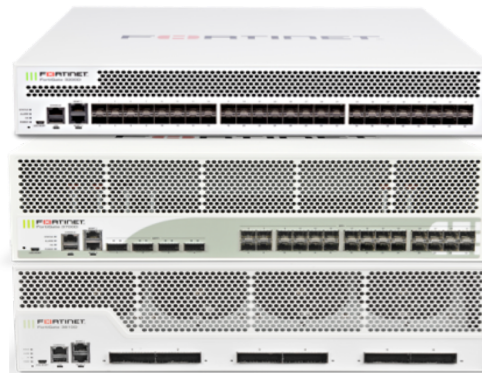
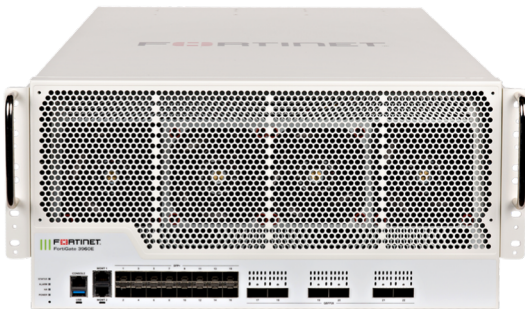


 **FG-1000D Series**



 **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**

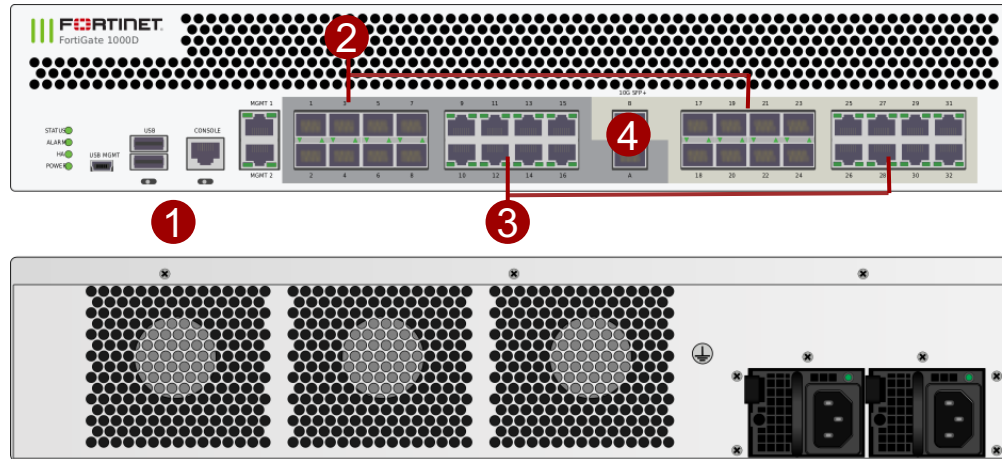
FortiGate 1000 & 2000 Series: Comparison

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

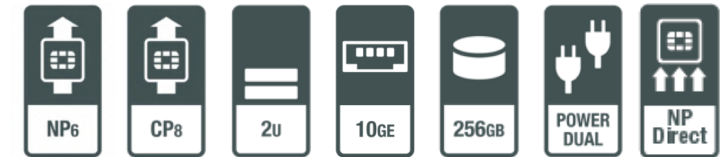
FortiGate 3000 Series: Comparison

	FG-3000D	FG-3100D	FG-3200D	FG-3700D	FG-3800D	FG-3960E	FG-3980E
Firewall (1518/512/64 byte UDP)	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
Concurrent Sessions	50 Mil	50 Mil	50 Mil	50 Mil	95 Mil	160 Million	160 Million
New Sessions/Sec	400,000	400,000	400,000	400,000	480,000	550,000	550,000
IPSec VPN	50 Gbps	50 Gbps	50 Gbps	100 Gbps	135 Gbps	280 Gbps	400 Gbps
IPS (Ent. Mix)	23 Gbps	22 Gbps	26 Gbps	28 Gbps	30 Gbps	30 Gbps	32 Gbps
NGFW (Ent. Mix)	22 Gbps	18 Gbps	24 Gbps	20 Gbps	20 Gbps	22 Gbps	28 Gbps
Threat Protection (Ent. Mix)	13 Gbps	13 Gbps	15 Gbps	13 Gbps	13 Gbps	13.5 Gbps	18.5 Gbps
Interfaces	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
Storage	480 GB	480 GB	960 GB	2x 1TB	960 GB	-	-
Variants	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

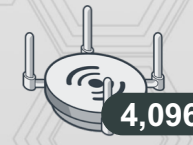
NGFW / ISFW / DCFW



20,000



5,000

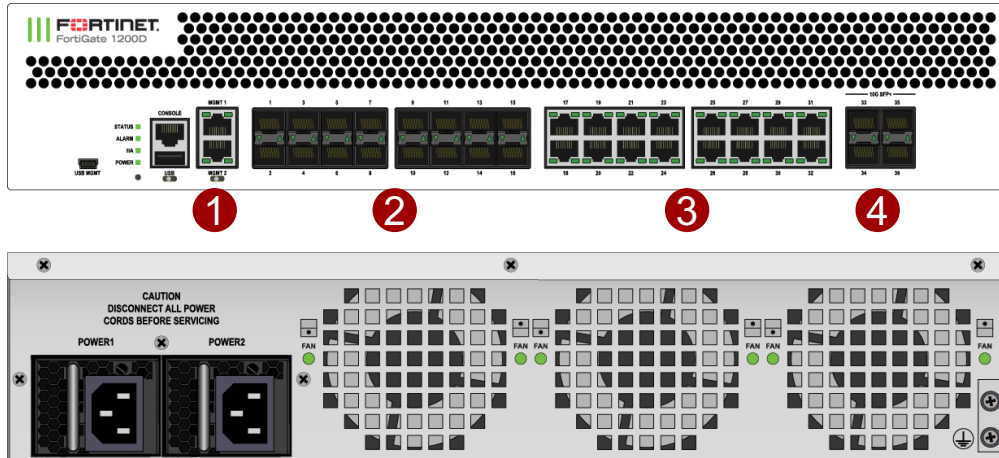


4,096

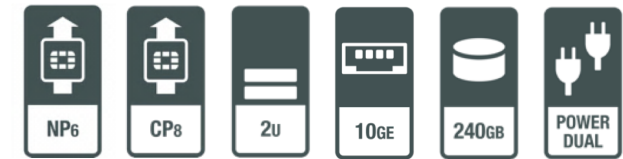


128

FortiGate 1200D



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



72 Gbps

Firewall throughput



6.8 Gbps

IPS Throughput



6 Gbps

NGFW Throughput



4 Gbps

Threat Protection Throughput

11 Million

Concurrent Sessions

290,000

New Sessions/Sec

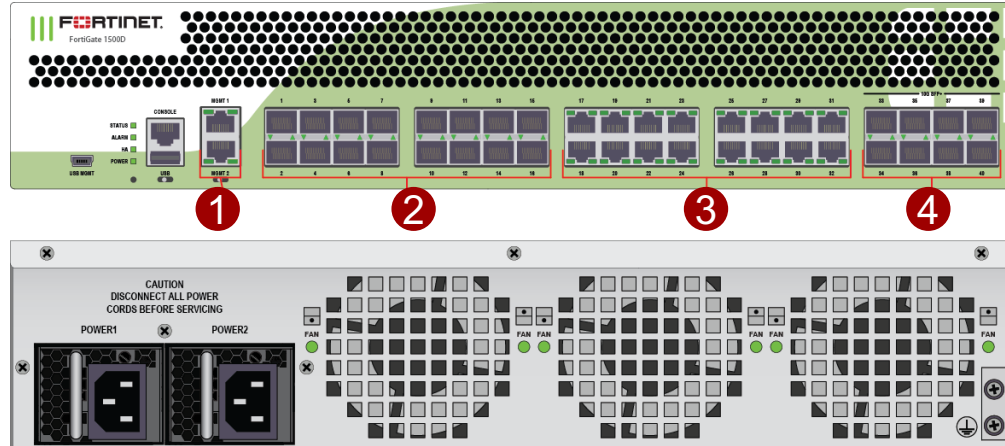


Large Enterprise / Data Center

NGFW / ISFW / DCFW



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

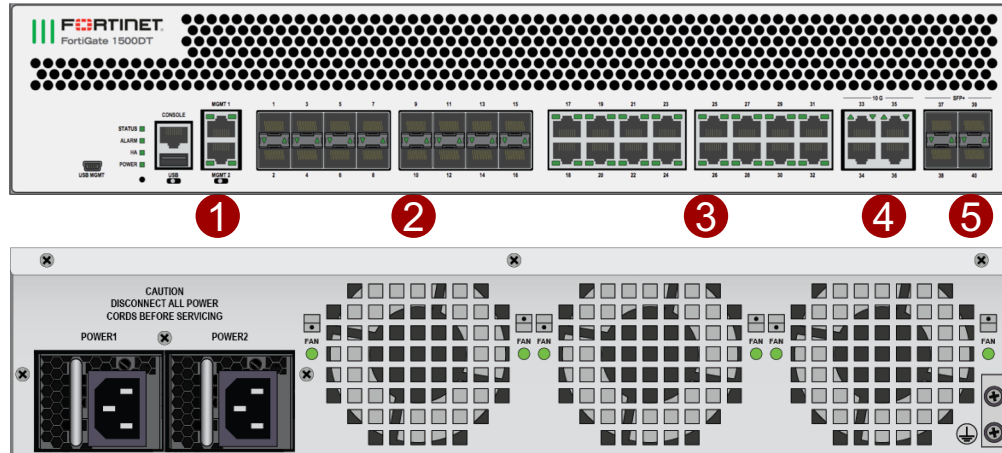


Large Enterprise / Data Center

NGFW / ISFW / DCFW



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

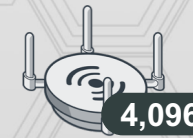
NGFW / ISFW / DCFW



20,000



5,000

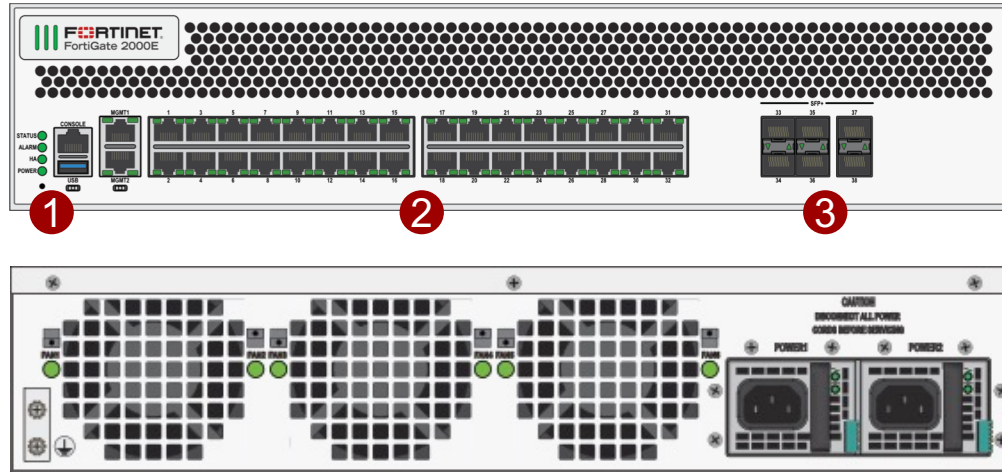


4,096

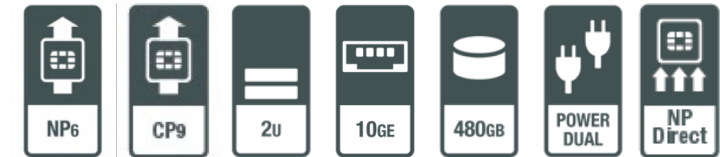


128

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



9 Gbps

NGFW Throughput



5.4 Gbps

Threat Protection Throughput

20 Million

Concurrent Sessions

500,000

New Sessions/Sec



Large Enterprise / Data Center

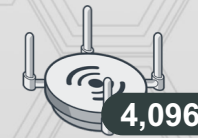
NGFW / ISFW / DCFW



20,000



5,000

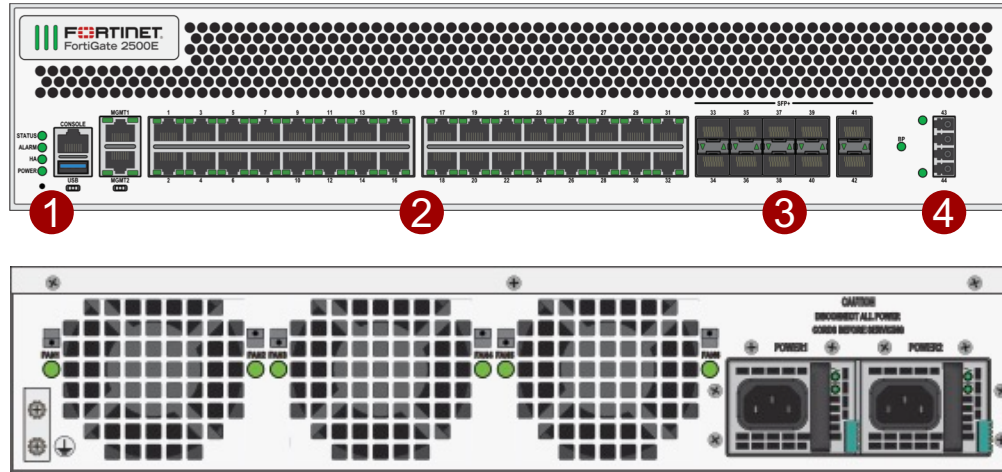


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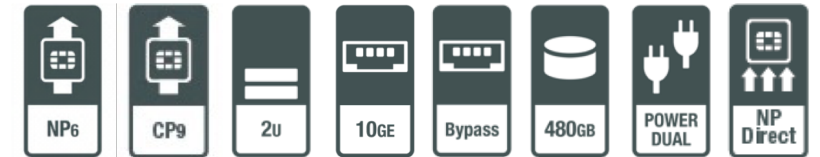


128

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



9 Gbps

NGFW Throughput



5.4 Gbps

Threat Protection Throughput

20 Million

Concurrent Sessions

500,000

New Sessions/Sec

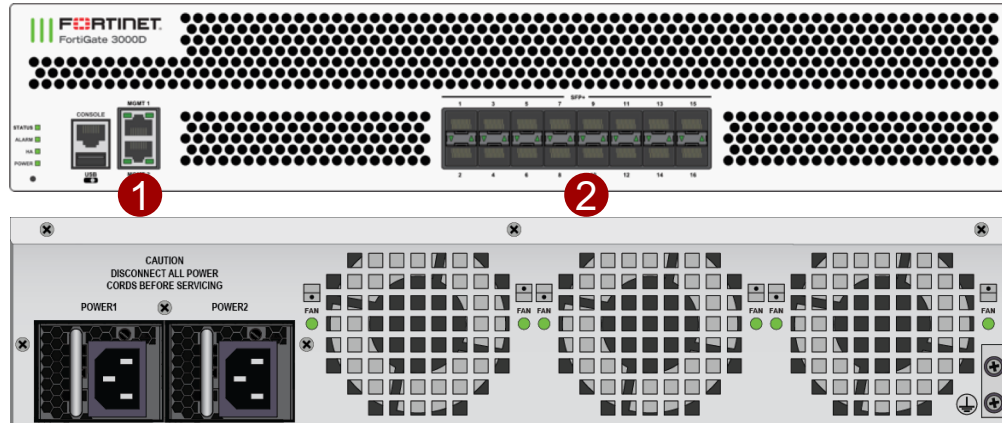


Large Enterprise / Data Center

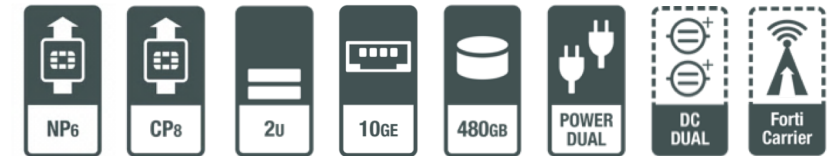
NGFW / ISFW / DCFW



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

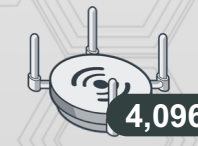
NGFW / ISFW / DCFW / CCFW



50,000



5,000

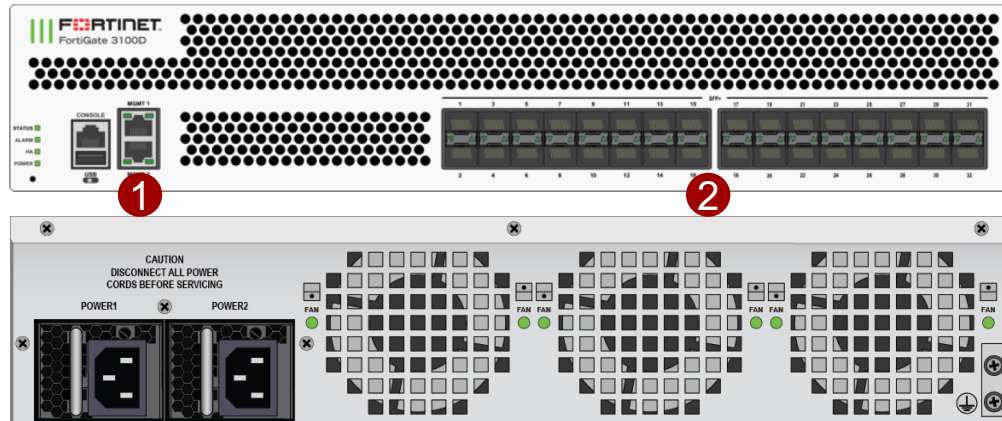


4,096

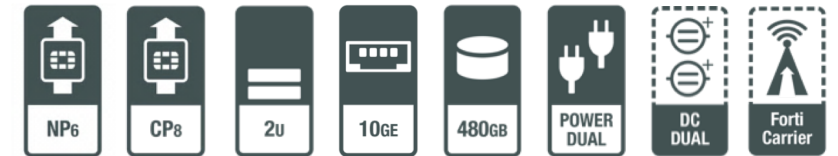


256

FortiGate 3100D



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



80 Gbps

Firewall throughput



22 Gbps

IPS Throughput



18 Gbps

NGFW Throughput



13 Gbps

Threat Protection Throughput

50 Million

Concurrent Sessions

400,000

New Sessions/Sec



Large Enterprise / Data Center / Service Provider

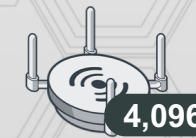
NGFW / ISFW / DCFW / CCFW



50,000



5,000

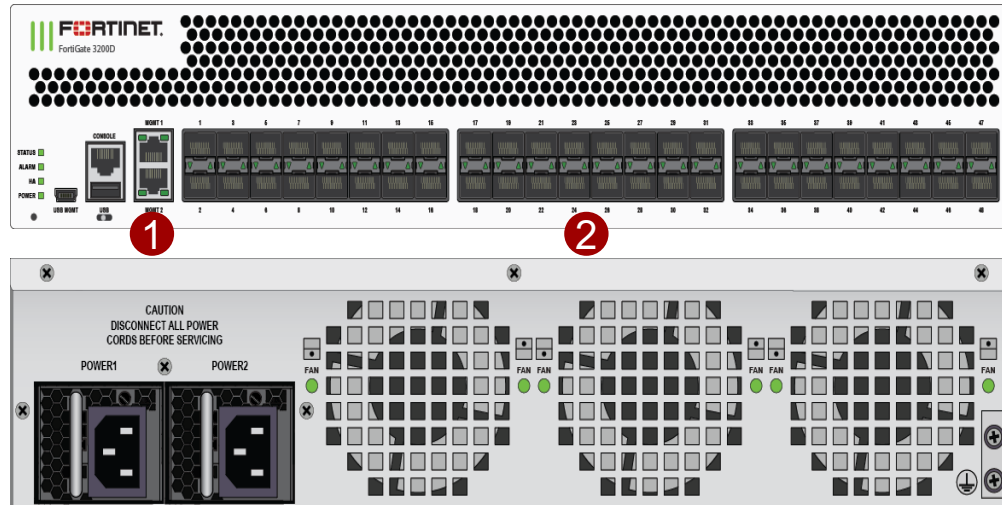


4,096

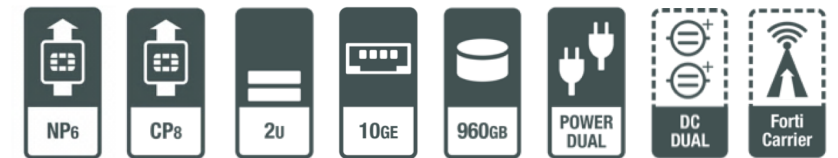


256

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

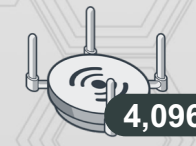
NGFW / ISFW / DCFW / CCFW



50,000



5,000

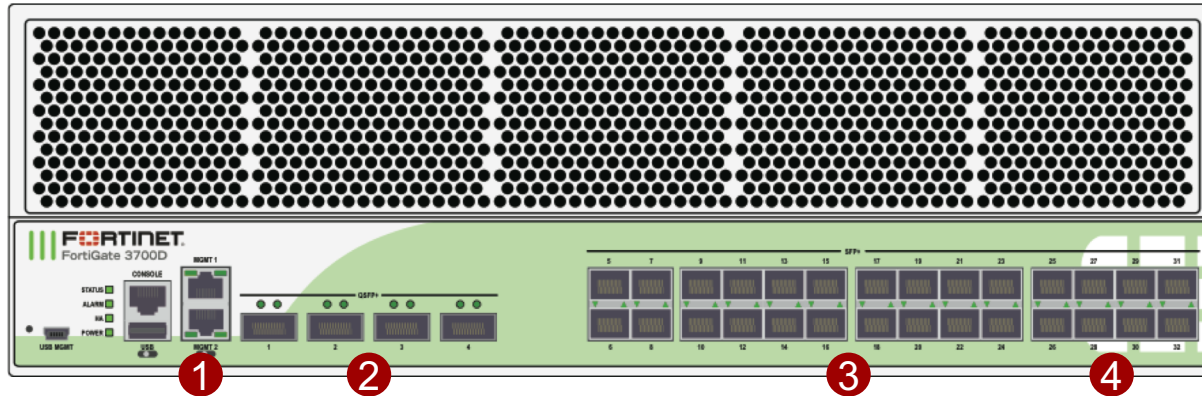


4,096



256

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

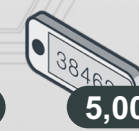


Large Enterprise / Data Center / Service Provider

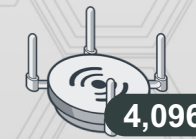
NGFW / ISFW / DCFW / CCFW



100,000



5,000

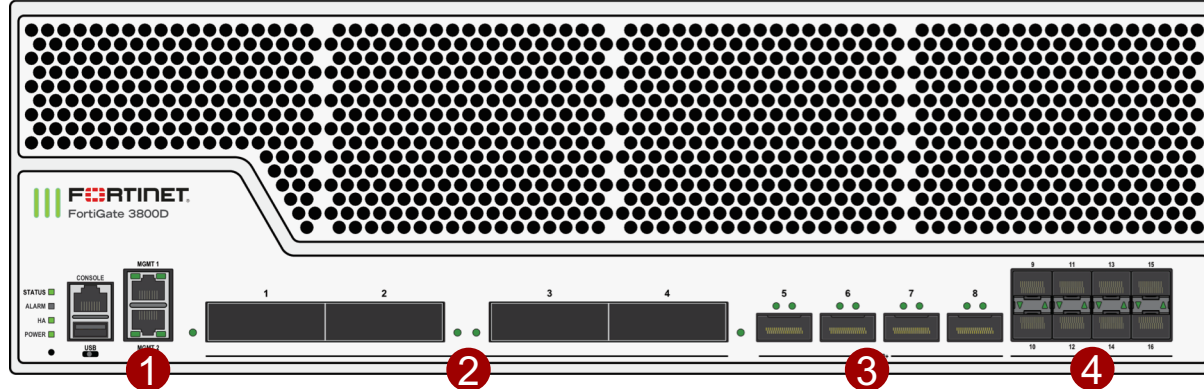


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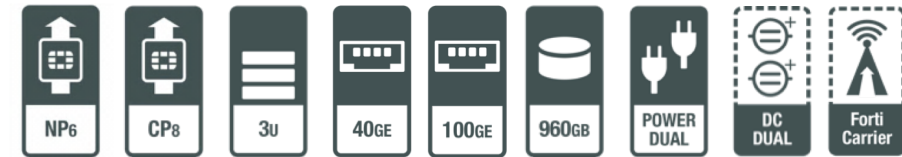


256

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**

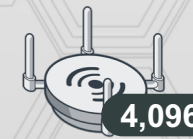
NGFW / ISFW / DCFW / CCFW



100,000



5,000

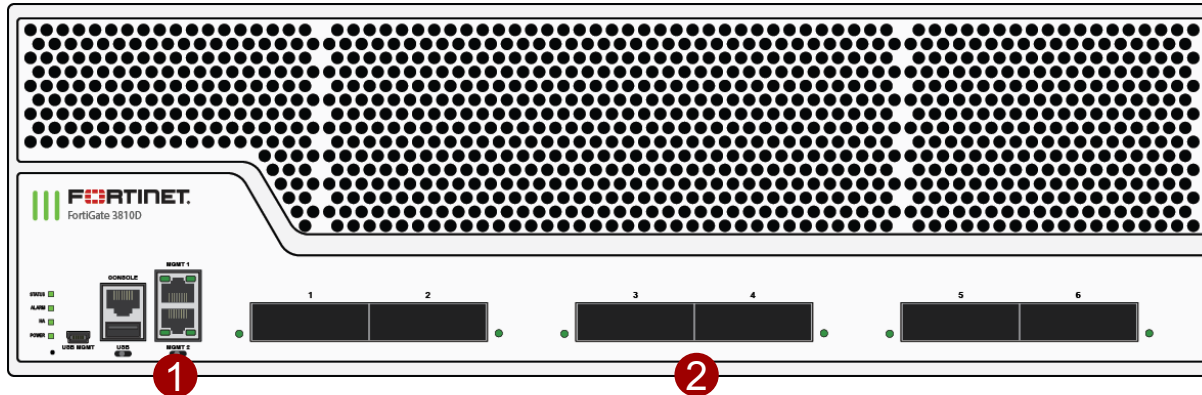


4,096



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

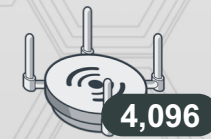
NGFW / ISFW / DCFW / CCFW



100,000



5,000

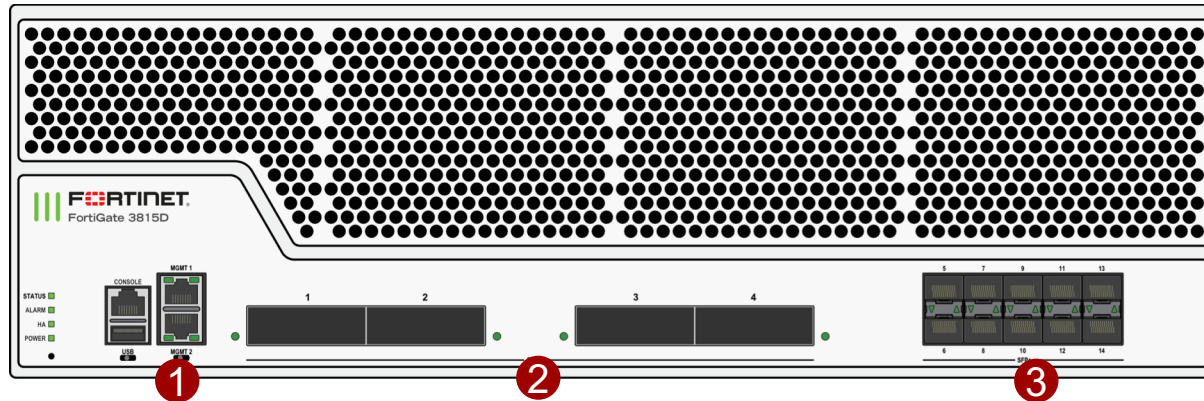


4,096



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

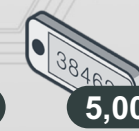


**Large Enterprise / Data Center /
Service Provider**

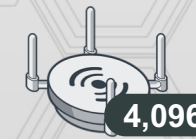
NGFW / ISFW / DCFW / CCFW



100,000



5,000

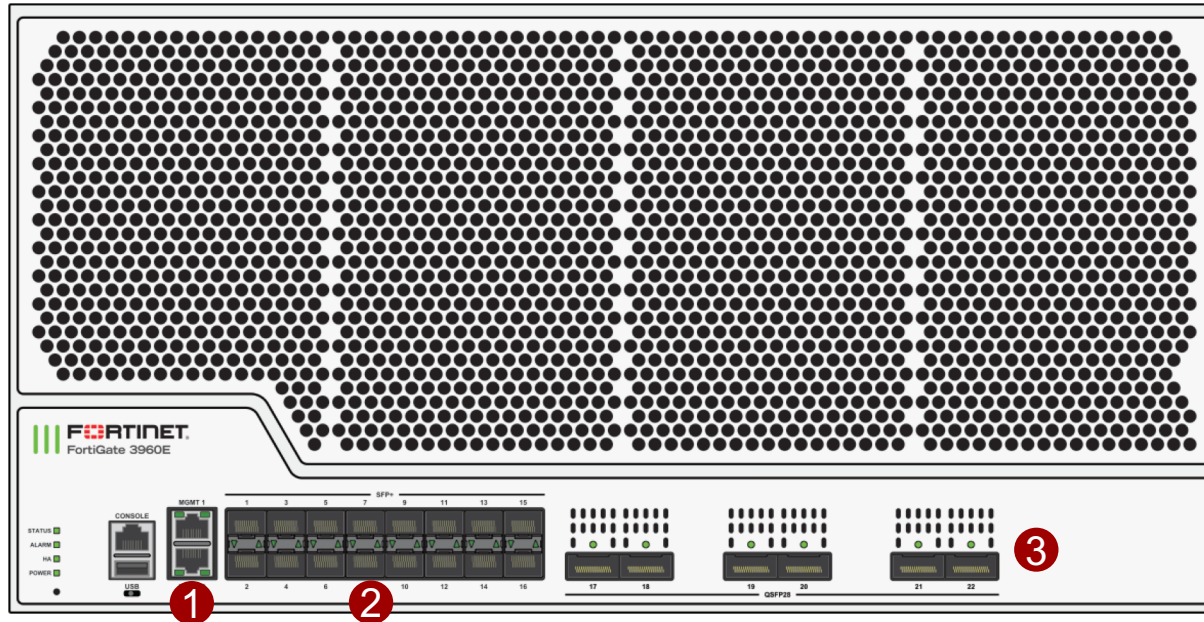


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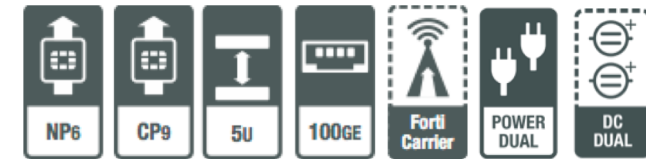


256

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



22 Gbps

NGFW Throughput



13.5 Gbps

Threat Protection Throughput

160 Million

Concurrent Sessions

550,000

New Sessions/Sec

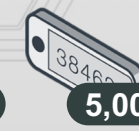


**Large Enterprise / Data Center /
Service Provider**

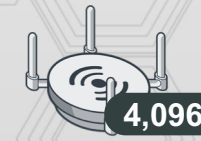
NGFW / ISFW / DCFW / CCFW



100,000



5,000

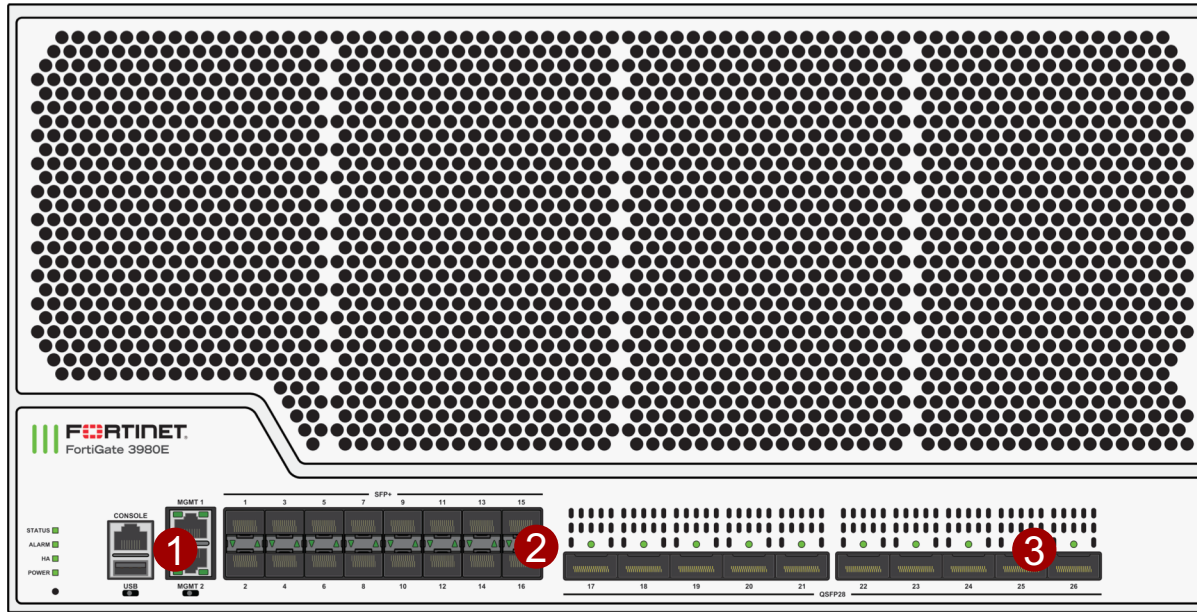


4,096

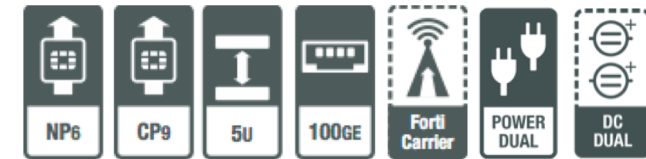


256

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



28 Gbps

NGFW Throughput



18.5 Gbps

Threat Protection Throughput

160 Million

Concurrent Sessions

550,000

New Sessions/Sec



Large Enterprise / Data Center / Service Provider

NGFW / ISFW / DCFW / CCFW



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.

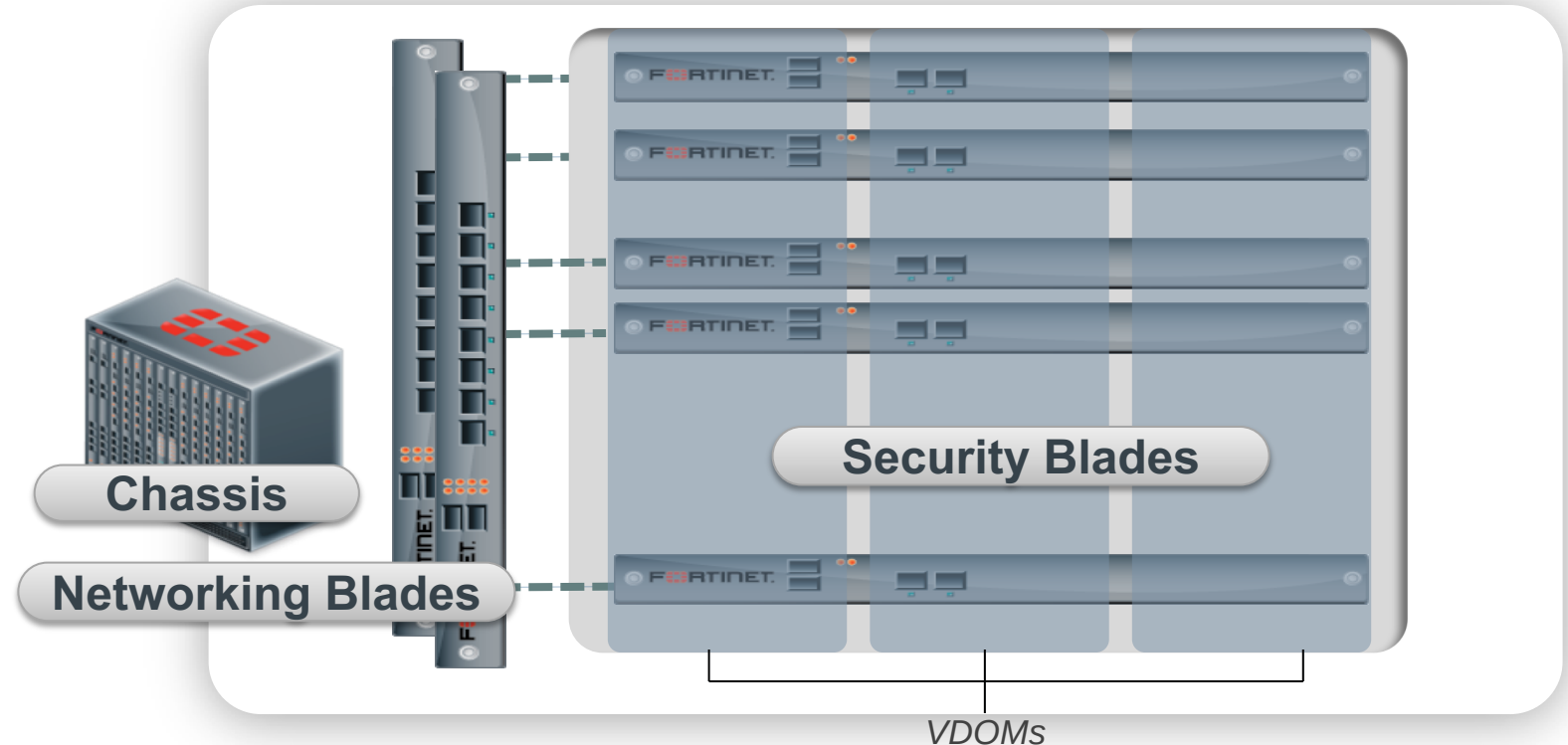
Load Distribution & Virtualization

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

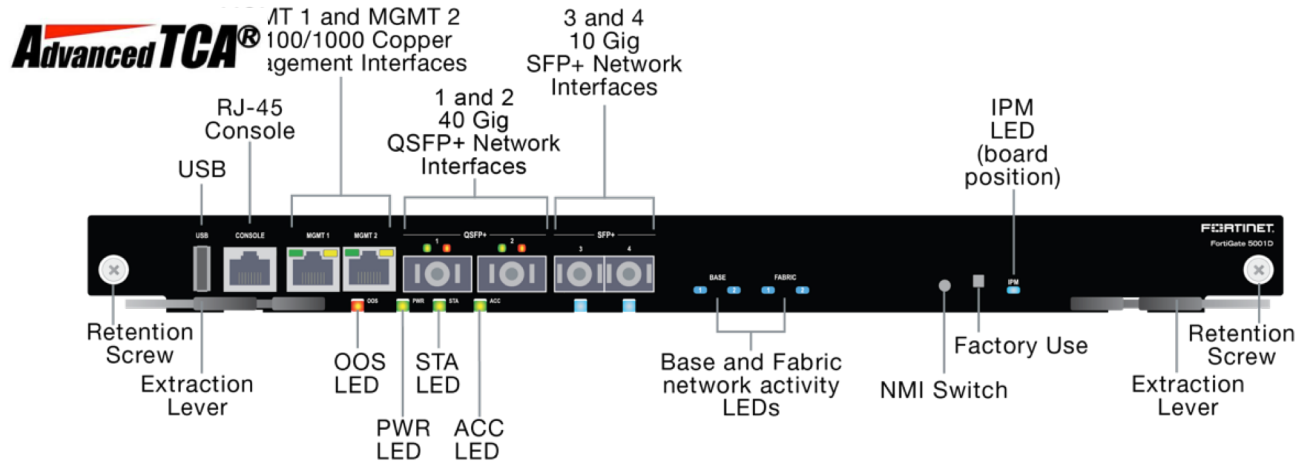
Virtualization

Facilitates virtualized security components on FortiGate blades

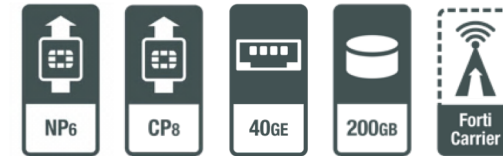
FortiGate 5000 Series: Comparison

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

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



10 Gbps

NGFW Throughput



7.7 Gbps

Threat Protection Throughput

23 Million

Concurrent Sessions

565,000

New Sessions/Sec



Data Center / Service Provider

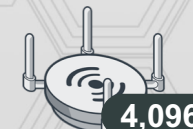
DCFW /CCFW



20,000



5,000

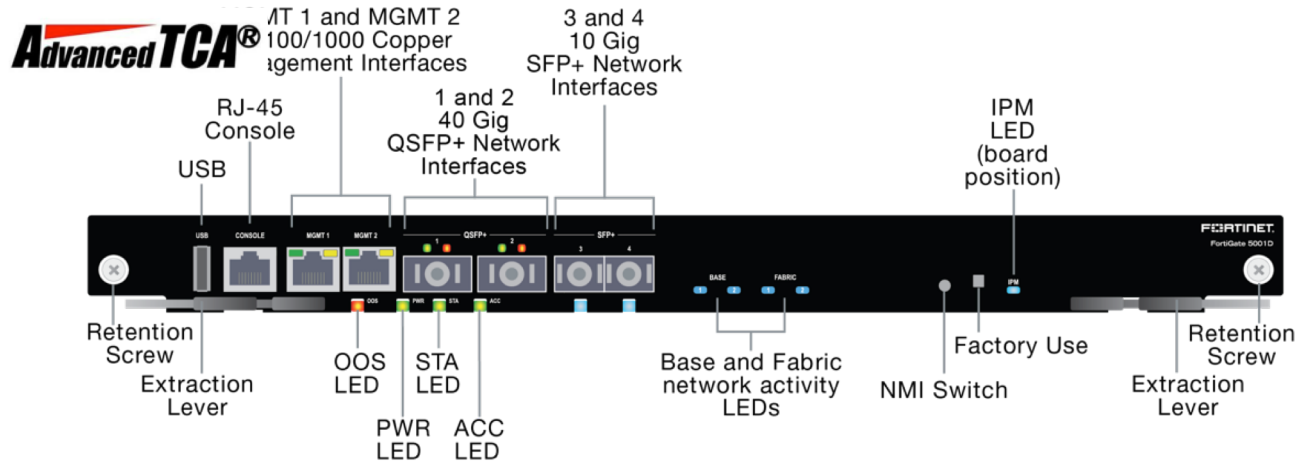


4,096

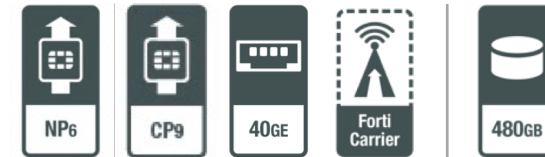


Yes

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



15 Gbps

NGFW Throughput



13.5 Gbps

Threat Protection Throughput

40 Million

Concurrent Sessions

640,000

New Sessions/Sec



Data Center / Service Provider

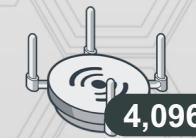
DCFW /CCFW



20,000



5,000



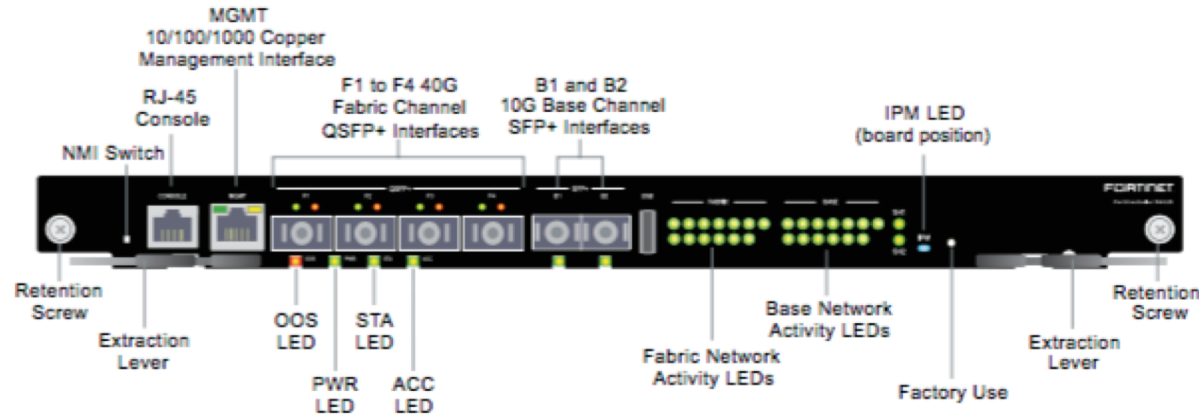
4,096



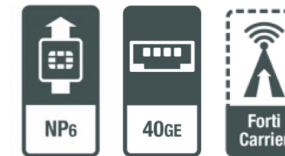
Yes

FortiController 5902D

AdvancedTCA®



- 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



10 Gbps

NGFW Throughput



6.1 Gbps

Threat Protection Throughput

50 Million

Concurrent Sessions

155,000

New Sessions/Sec



Data Center / Service Provider

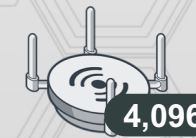
DCFW /CCFW



20,000



5,000

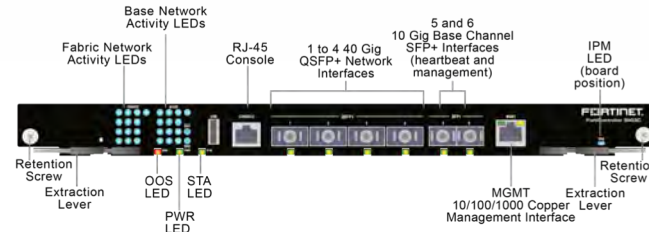


4,096

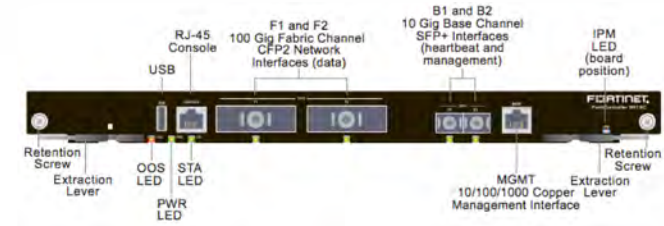


N/A

FortiController 5903C/5913C



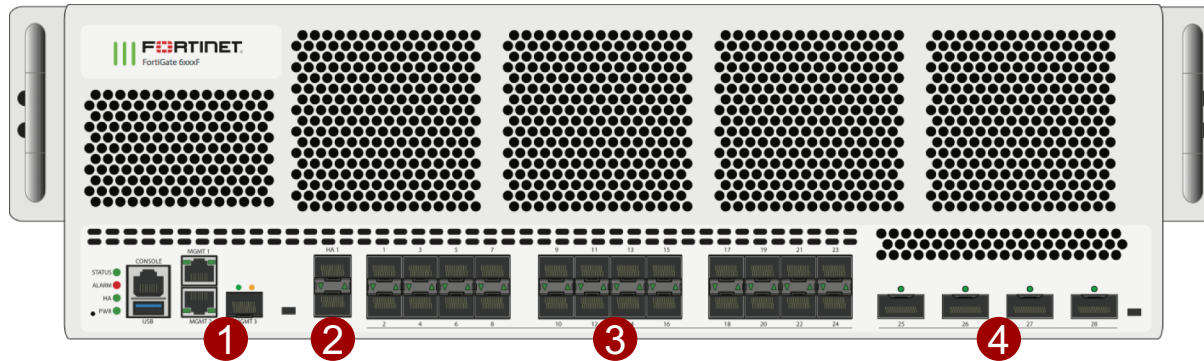
- ① 4x 40 GE QSFP+
- ② 2x 10 GE SFP+
- ③ 1x GE RJ45



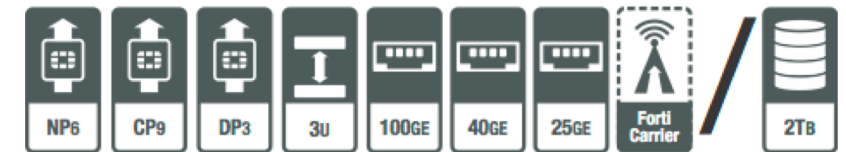
- ① 2x 100 GE CFP2
- ② 2x 10 GE SFP+
- ③ 1x GE RJ45

	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



90 Gbps

NGFW Throughput



60 Gbps

Threat Protection Throughput

120 Million

Concurrent Sessions

2 Million

New Sessions/Sec



Large Enterprise / Data Center

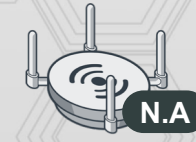
NGFW / ISFW / DCFW / CCFW



20,000



100,000

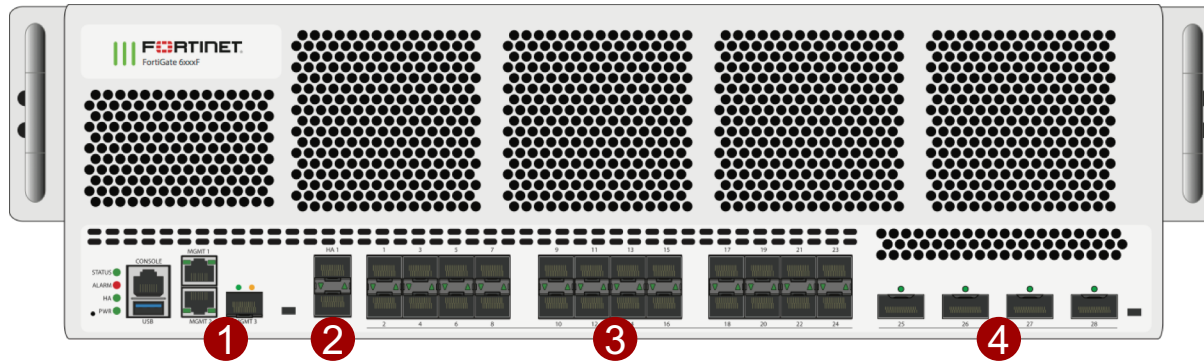


N.A

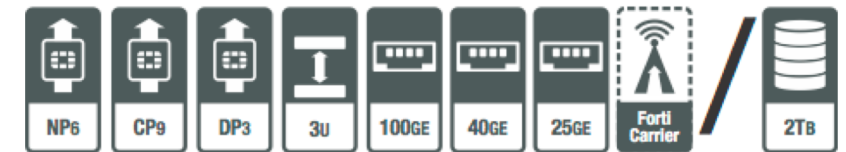


N.A

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



170 Gbps

IPS Throughput



150 Gbps

NGFW Throughput



100 Gbps

Threat Protection Throughput

200 Million

Concurrent Sessions

3 Million

New Sessions/Sec



Large Enterprise / Data Center

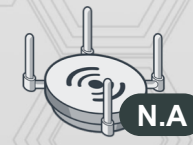
NGFW / ISFW / DCFW / CCFW



20,000



100,000

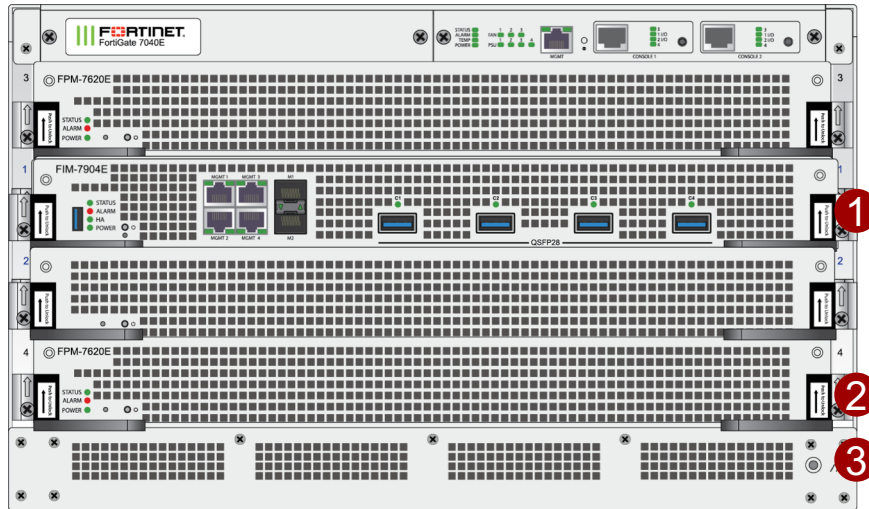


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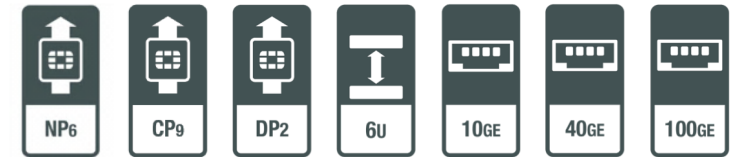


N.A

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



50 Gbps

NGFW Throughput



35 Gbps

Threat Protection Throughput

160 Million

Concurrent Sessions

900,000

New Sessions/Sec



Large Enterprise / Data Center

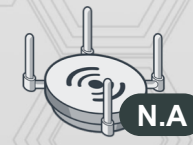
NGFW / ISFW / DCFW / CCFW



20,000



5,000

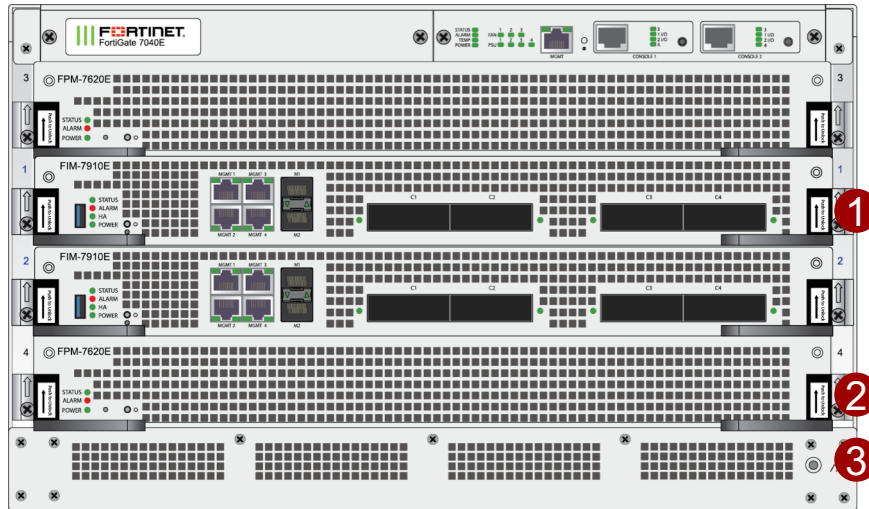


N.A



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



50 Gbps

NGFW Throughput



40 Gbps

Threat Protection Throughput

160 Million

Concurrent Sessions

950,000

New Sessions/Sec



Large Enterprise / Data Center

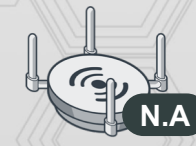
NGFW / ISFW / DCFW / CCFW



20,000



5,000

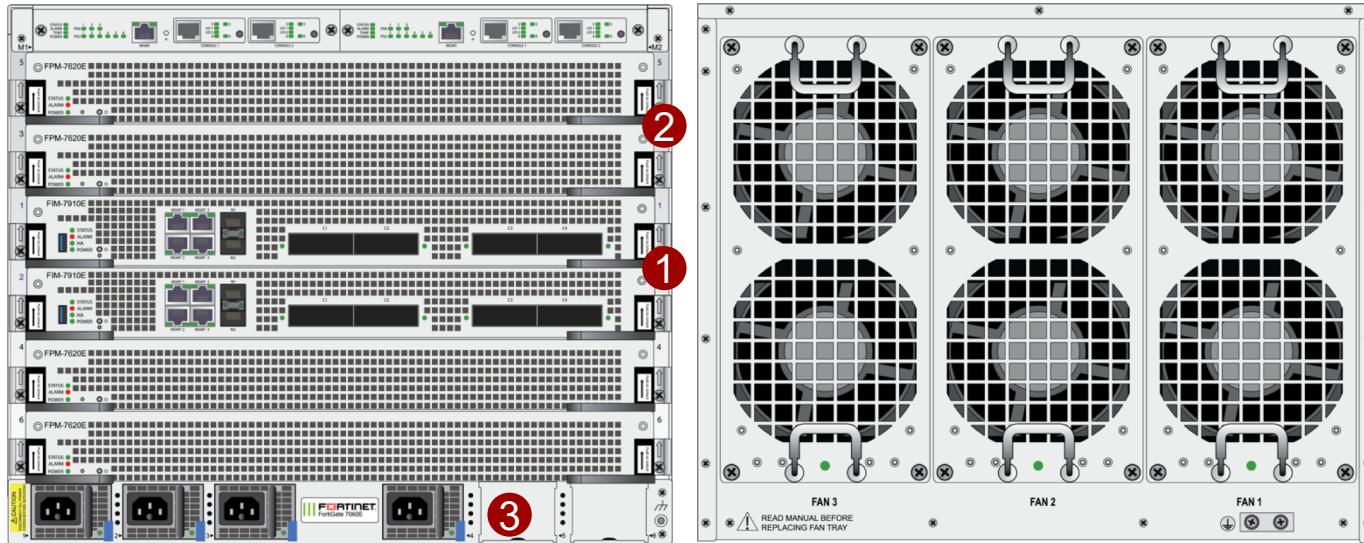


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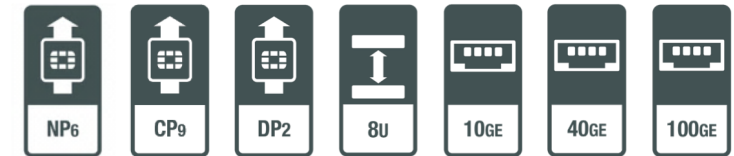


N.A.

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



100 Gbps

NGFW Throughput



80 Gbps

Threat Protection Throughput

320 Million

Concurrent Sessions

1.8 Million

New Sessions/Sec



Large Enterprise / Data Center

NGFW / ISFW / DCFW / CCFW



FortiGate 7040E & 7060E Bundle

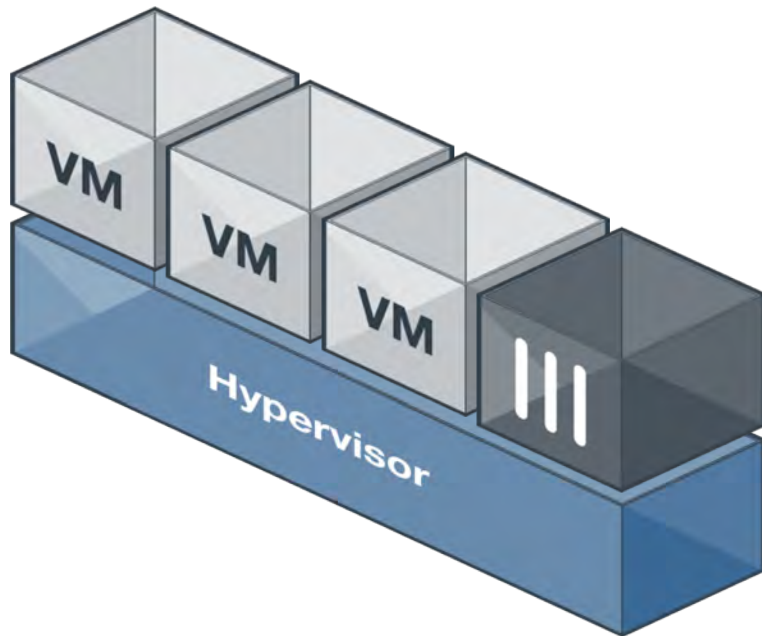
FG-7040E	FPM-7620E	FIM-7901E	FIM-7904E	FIM-7910E	FIM-7920E
Network Interfaces	-	32x GE/10 GE SFP/+	8x 40 GE QSFP+	4x 100 GE CFP2	4x 100 GE QSFP28
Base Channel Interfaces	-	2x 10 GE SFP+	2x 10 GE SFP+	2x 10 GE SFP+	2x 10 GE SFP+
Management Interfaces	-	4x GE RJ45	4x GE RJ45	4x GE RJ45	4x GE RJ45
FG-7040E-8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

VMware
ESXi

Citrix
Xen

Xen

KVM

MS
Hyper-V

Amazon
AWS

MS
Azure

GCP

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
Private Cloud Platforms								
VMware								
Citrix								
Microsoft Hyper-V								
KVM								
Open Source Xen								
Public Cloud Platforms								
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
FG-80E Series	2 SFP	NIL
FG100D	2 SFP	NIL
FG140D/140D-POE/140D-POE-T1	2 SFP	NIL
FG-100EF	8 SFP	NIL
FG-140E/140E-POE	2 SFP	NIL
FG-200D/200D-POE/240D/240-POE	2 SFP	NIL
FG-280D-POE	4 SFP	NIL
FG-200E/201E	4 SFP	NIL
FG300D/400D/500D/600D	4/8/8/8 SFP	2x Fiber SX SFP modules (1000BaseSX)
FG-300E/301E	16 SFP	2x Fiber SX SFP modules (1000BaseSX)
FG-500E/501E	2 SFP+ 8 SFP	2x Fiber SX SFP modules (1000BaseSX)

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

Transceivers

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

Models	Available Slots	Transceivers Shipped
FG-3960E	6 QSFP28 16 SFP+	2x SFP+ (SR 10GE)
FG-3980E	10 QSFP28 16 SFP+	2x SFP+ (SR 10GE)
FG-5001C	2 SFP+	2x SFP+ (SR 10GE)
FG-5001D/5001E	2 SFP+ 2 QSFP+	2x SFP+ (SR 10GE)
FCTL-5903C	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
FG600D	FRPS-100 (max 2 units)
FG-620B, 621B	SP-FG620B-RPS
FG-800D	SP-FG600C-PS (additional as option)
FG-1000C, FG-1000C-DC	SP-FG600C-PS, SP-FG600C-DC-PS (spare)
FG-900D/1000D	SP-FXX1000D
FG-1200D	SP-FG1240B-PS
FG-1240B, FG-1500D, FG-3040B, FG-3140B	SP-FG1240B-PS (spare)
FG-3000D, FG-3100D, FG-3240C, 3200D, FG-3600C	SP-FG3600C-PS (spare)

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

Power Cords

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

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		V 2.8	V 3.0	V 4.0	V4.1	V 4.2	V 4.3
		Antispam	- SSL VPN - IM/P2P mgmt	- DLP - WAN Opt. - SSL Proxy - App Control	- Wireless ctrl - IPv6 UTM - SQL Logging	- New GUI - Network VM	- Token Server - ICAP
		2012/Q4	2014/Q2	2016/Q3	2017/Q1	2018/Q1	
New Key functionalities		V 5.0	V 5.2	V 5.4	V 5.6	V 6.0	
		- Client reputation - Sandbox integration - Endpoint control - Device based policy	- FortiView - Deep Flow AV - Software performance optimization	- ATP Integration - SDN support	Security Fabric Integration and Features	- Security Fabric Enhancements - Automation	

FortiOS V6.0

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

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				 802.11ac W2 FAP-421/423E
3x3:3					 802.11ac FAP-320C  802.11ac FAP-321C
2x2:2				 802.11ac FAP-222C  FAP-224D	 802.11ac W2 FAP-221/223E  802.11ac FAP-221/223C  FAP-221B
1x1:1	Single Radio	 802.11ac FAP-C24JE  FAP-C23JD	 FAP-28C  FAP-25D  FAP-21D		 FAP-24D
			 FAP-14C  FAP-11C	 FAP-112D	
		Wall Plate	Remote	Outdoor	Indoor

FortiAP 11C

Remote | 802.11n | Single Radio | 1x1



① 2 x GE RJ45 Interface



Target Environment

Number of Antenna

Rx / Tx

Radio 1

Radio 2

PoE

Portable AP for traveller

1 internal

1x1

2.4 GHz b/g/n
(150 Mbps)

-

-

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

Number of Antenna

Rx / Tx

Radio 1

Radio 2

PoE

Hotels/Hospitality desktop

2 internal

2x2

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

-

-

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

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-223C

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 320/321C

Indoor | 802.11ac | Dual Radio | 3x3



① 2 x GE RJ45 Interface



① 2 x GE RJ45 Interface



FAP-320C

Target Environment	High density, streaming app, resilience
Number of Antenna	6 internal
Rx / Tx	3x3
Radio 1	2.4 GHz b/g/n (450 Mbps)
Radio 2	5GHz a/n/ac (1300 Mbps)
PoE	802.3af

FAP-321C

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

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

FAP-223C

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

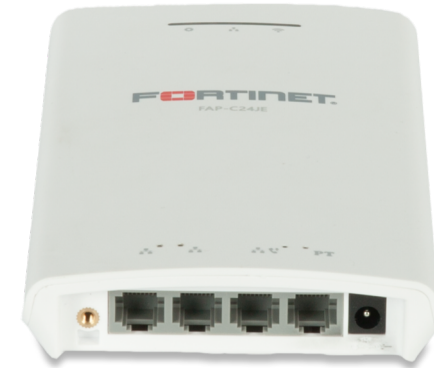
802.3at

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

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

FAP-C24JE

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

Hardware Overview – FortiAP

Remote

	FAP-11C	FAP-14C	FAP-21D	FAP-28C	FAP-25D
Use Case	Portable AP for traveller	Remote office or SOHO desktop	FortiPresence Sensor or Travel/SOHO (USB powered)	Remote office or SOHO desktop	Hotels/Hospitality desktop
Form Factor	Small, portable	Desktop	Small, portable	Desktop	Small, portable Powerstrip design
Rx / Tx	1x1	1x1	2x2	2x2	2x2
Radio 1	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)
Radio 2	-	-	-	-	-
PoE	NA	NA	NA	NA	NA
Antennas	1 internal	1 internal	2 internal	2 internal	2 internal
Ethernet Ports	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
Management	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
Use Case	Low density indoor	Medium density indoor	Medium density indoor	high density 802.11ac, streaming app resilience	Medium density 802.11ac without resilience
Form Factor	Desktop	Smoke Detector, wall or ceiling mount	Smoke Detector, wall or ceiling mount	Wall or ceiling mount	Smoke Detector, wall or ceiling mount
Rx / Tx	2x2	2x2	2x2	3x3	3x3
Radio 1	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)
Radio 2	-	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)
PoE	802.3af	802.3af	802.3af	802.3af	802.3af
Antennas	2 internal	4 internal	4 internal / 4 external*	6 internal	6 internal
Ethernet Interfaces	1x GE WAN 4x FE LAN	1 x GE RJ45	1 x GE RJ45	2 x GE RJ45	1 x GE RJ45
Management	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud	FortiGate, FortiCloud

Hardware Overview – FortiAP Series

Indoor | 802.11ac W2

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

Hardware Overview – FortiAP

Outdoor

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

FortiAP Family Overview

S-Series

4x4:4	Dual Radio	Resiliency		 802.11ac W2 FAP-S422E	 802.11ac W2 FAP-S421/423E
				 802.11ac FAP-S322CR	 802.11ac FAP-S321/323CR
3x3:3	Single Radio			 802.11ac FAP-S322C	 802.11ac FAP-S321/323C
					 802.11ac FAP-S311/313C
2x2:2	Dual Radio				 802.11ac W2 FAP-S221/223E
			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

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

FAP-S313C

Target Environment	Medium density indoor with Security
Number of Antenna	3 External
Rx / Tx	3x3
Radio 1	2.4/5GHz b/g/n (450 Mbps) or a/n/ac dual-band (1300 Mbps)
Radio 2	-
PoE	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

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

FAP-S223E

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

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

FAP-S313C

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

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

FAP-S323CR

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

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

FAP-S322CR

Target Environment	Outdoor
Number of Antenna	6 External
Rx / Tx	3x3
Radio 1	5 GHz 802.11a/n/ac (1300 Mbps)
Radio 2	2.4 GHz 802.11b/g/n (450 Mbps)
PoE	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
Form Factor	Smoke Detector Form Factor	Smoke Detector Form Factor	Smoke Detector Form Factor	Indoor, rectangular
Rx / Tx	3x3	3x3	3x3	4x4
Radio 1	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)
Radio 2	-	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (600 Mbps)
PoE	802.3af	802.3af	802.3af	802.3at
Antennas	311C: 3 internal 313C: 3 external	321C: 6 internal 323C: 3 external	321CR: 6 internal 323CR: 3 external	421E: 8 internal 423E: 8 external
Ethernet Interfaces	1 x GE RJ45	1 x GE RJ45	2 x GE RJ45	2 x GE RJ45
Management	FortiCloud, FortiGate	FortiCloud, FortiGate	FortiCloud, FortiGate	FortiCloud, FortiGate

Hardware Overview – FortiAP S-Series

Outdoor

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

FortiAP Family Overview

U-Series

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

FortiAP U221/223EV

Indoor | 802.11ac W2 | Dual Radio | 2x2



① 1 x GE RJ45 Interface



① 1 x GE RJ45 Interface



FAP-U221E

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

FAP-U223E

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

Target Environment	High density and performance Indoor AP
Number of Antenna	6 Internal + 1 Bluetooth
Rx / Tx	3x3
Radio 1	2.4 GHz b/g/n (450 Mbps)
Radio 2	5GHz a/n/ac (2340 Mbps)
PoE	802.3at/af

FAP-U323EV

Target Environment	High density and performance Indoor AP
Number of Antenna	6 External+ 1 Bluetooth
Rx / Tx	3x3
Radio 1	2.4 GHz b/g/n (450 Mbps)
Radio 2	5GHz a/n/ac (2340 Mbps)
PoE	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
Form Factor	Indoor, rectangular	Indoor, rectangular	Indoor, rectangular
Rx / Tx	2x2	3x3	4x4
Radio 1	5GHz a/n/ac (867 Mbps)	5GHz a/n/ac (2340Mbps)	5GHz a/n/ac (3460 Mbps)
Radio 2	2.4 GHz b/g/n (300 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (800 Mbps)
PoE	802.3af/at	802.3af/at	802.3af/at
Antennas	4 internal / external + BT	6 internal / external + BT	8 internal / external + BT
Ethernet Interfaces	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.**

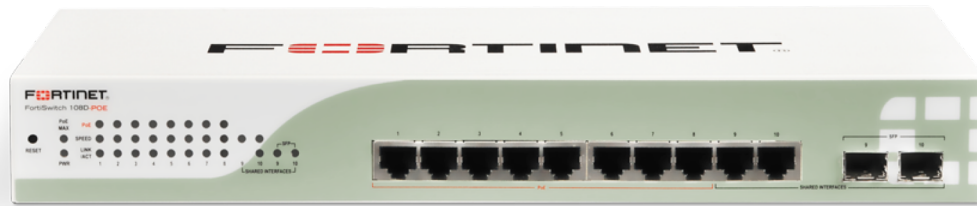
Primary Benefits:

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

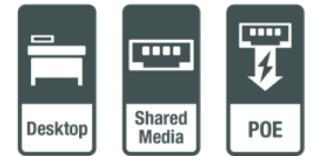
FortiSwitch Family

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				
		100 Series	200 Series	400 Series	500 Series	1000/3000 Series
		+ 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	Data Center Switches

FortiSwitch 108D-POE



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

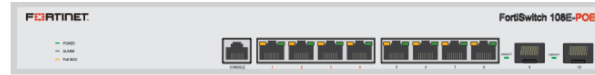


Switch Capacity	20 Gbps
MAC Address Storage	16,000
Network Latency (64bytes)	<1 μ s
VLANs Supported	4096
Max LAG Size	up to 8 ports
PoE Power Budget	75W
Power Supply	Single PS

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

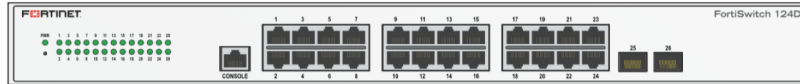


- ① 24x GE RJ45 POE+ Ports
- ② 4x GE SFP slots

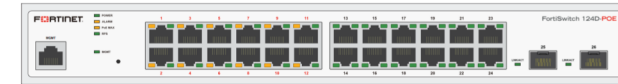


	FS-124E	FS-124E-POE	FS-124E-FPOE
Switch Capacity	56 Gbps	56 Gbps	56 Gbps
MAC Address Storage	8K	8K	8K
Network Latency (64bytes)	4 ms	4 ms	4 ms
VLANs Supported	4K	4K	4K
Max LAG Size	up to 8 ports	up to 8 ports	up to 8 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Single PS	Single PS	Single PS

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



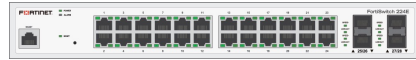
FS-124D

Switch Capacity	52 Gbps
MAC Address Storage	8,000
Network Latency (64bytes)	<1 μ s
VLANs Supported	4K
Max LAG Size	12
PoE Power Budget	-
Power Supply	Single PS

FS-124D-POE

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

FortiSwitch 224D/E Series



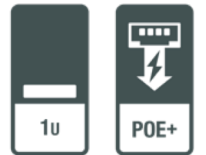
- ① 24x GE RJ45 Ports
- ② 4x GE SFP Slots



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

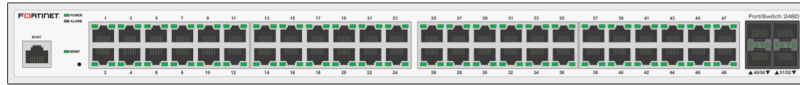


- ① 24 x GE RJ45 POE/POE+ Ports
- ② 4x GE SFP slots



	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

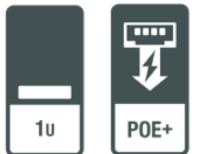
FortiSwitch 248D Series



- 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



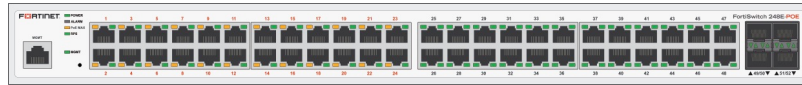
FS-248D

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

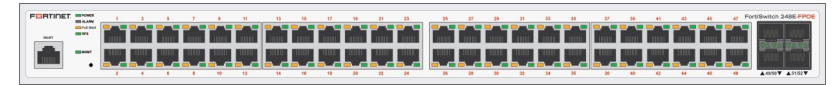
FS-248D-POE

Switch Capacity	104 Gbps
MAC Address Storage	16K
Network Latency (64bytes)	<1 μ s
VLANs Supported	4K
Max LAG Size	up to 12 ports
PoE Power Budget	370 W
Power Supply	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



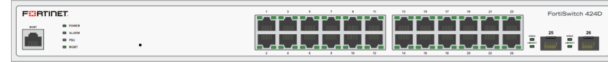
FS-248E-POE

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

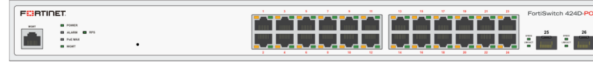
FS-248E-FPOE

Switch Capacity	104 Gbps
MAC Address Storage	16K
Network Latency (64bytes)	<1 μ s
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



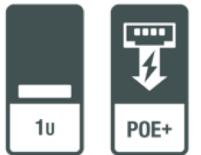
- ① 24x GE RJ45 Ports
- ② 2x 10GE SFP+ slots



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

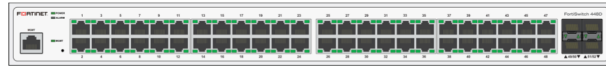


- ① 24x GE RJ45 POE/POE+ Ports
- ② 2x 10GE SFP slots

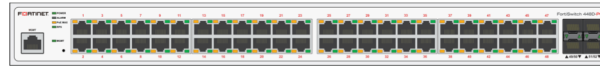


	FS-424D	FS-424D-POE	FS-424D-FPOE
Switch Capacity	88 Gbps	88 Gbps	88 Gbps
MAC Address Storage	16K	16K	16K
Network Latency (64bytes)	<1 μ s	<1 μ s	<1 μ s
VLANs Supported	4K	4K	4K
Max LAG Size	up to 12 ports	up to 12 ports	up to 12 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Dual Redundant PS	Single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

FortiSwitch 448D Series



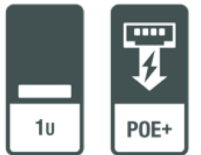
- ① 48x GE RJ45 Ports
- ② 4x 10GE SFP+ slots



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

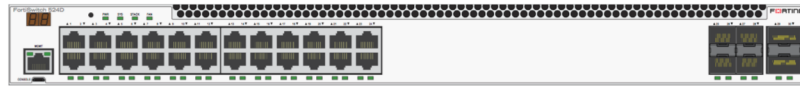


- ① 48x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP slots

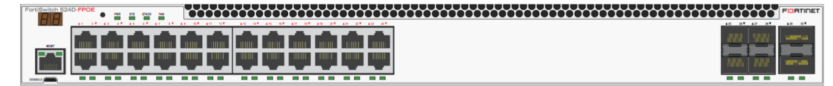


	FS-448D	FS-448D-POE	FS-448D-FPOE
Switch Capacity	176 Gbps	176 Gbps	176 Gbps
MAC Address Storage	16K	16K	16K
Network Latency (64bytes)	<1 μ s	<1 μ s	<1 μ s
VLANs Supported	4K	4K	4K
Max LAG Size	up to 12 ports	up to 12 ports	up to 12 ports
PoE Power Budget	-	185 W	370 W
Power Supply	Dual Redundant PS	Single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

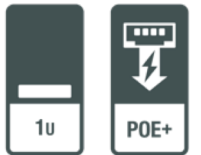
FortiSwitch 524D Series



- 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 μ s	<2 μ s
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

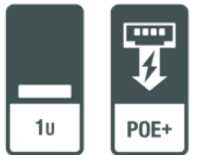
FortiSwitch 548D Series



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

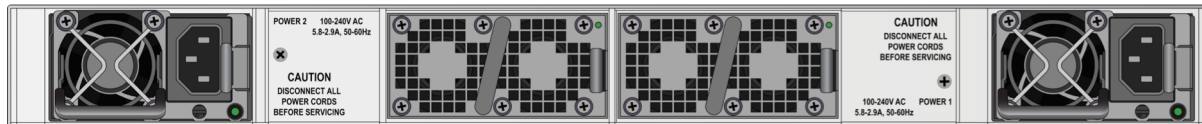
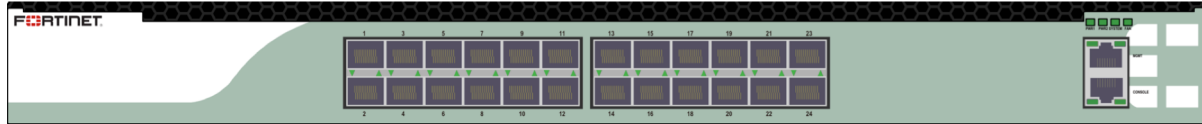


- ① 48x GE RJ45 POE/POE+ Ports
- ② 4x 10GE SFP+ slots
- ③ 2x 40GE stacking interface

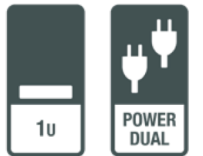


	FS-548D	FS-548D-FPOE
Switch Capacity	336 Gbps	336 Gbps
MAC Address Storage	96K	96K
Network Latency (64bytes)	<2 μ s	<2 μ s
VLANs Supported	4K	4K
Max LAG Size	up to 24 ports	up to 24 ports
PoE Power Budget	-	750 W
Power Supply	Single PS, Optional FS-PSU-150	Single PS, Optional FS-PSU-900

FortiSwitch 1024D

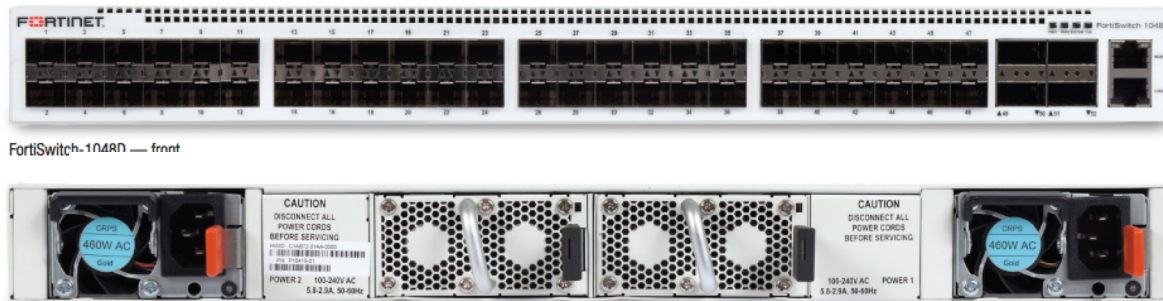


- ① 24x GE/10GE SFP/SFP+ slots
- ② 1x GE RJ45 Mgmt port

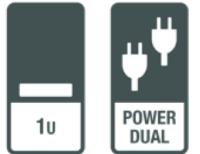


Switch Capacity	320 Gbps
MAC Address Storage	128,000
Network Latency (64bytes)	<1 μ s
VLANs Supported	4096
Max LAG Size	up to 24 ports
PoE Power Budget	-
Power Supply	Dual Redundant PS

FortiSwitch 1048D

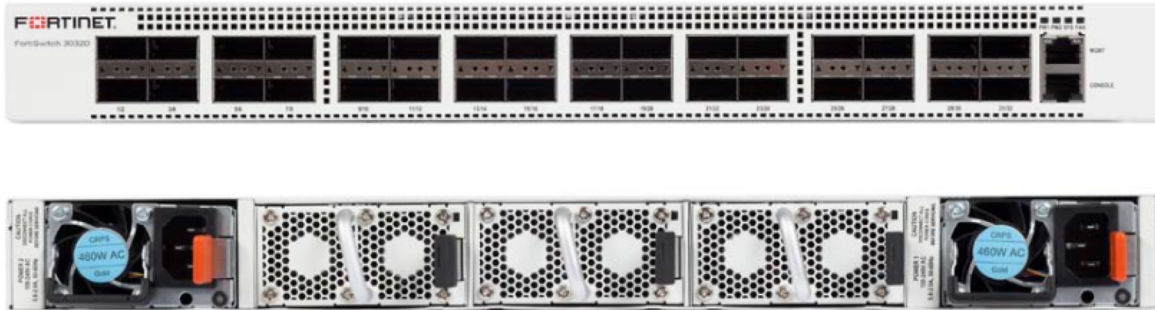


- ① 48x GE/10GE SFP/SFP+ slots
- ② 4x 40GE QSFP+ slots
- ③ 1x GE RJ45 Mgmt port

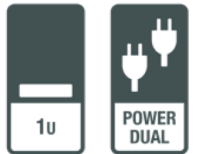


Switch Capacity	640 Gbps
MAC Address Storage	128,000
Network Latency (64bytes)	<1 μ s
VLANs Supported	4096
Max LAG Size	up to 24 ports
PoE Power Budget	-
Power Supply	Dual Redundant PS

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 μ 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
GE Ports	-	7x RJ45, 1x RJ45 PoE-PD 2x SFP	4x RJ45 2x SFP	2x SFP
PoE GE Ports	8	-	-	-
PoE/+ GE Ports	-	-	4	8
10GE SFP+ slots	-	-	-	-
Shared Ports (pair)	2	-	-	-
Power Budget	75 W	-	65 W	130 W
Power Supply	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
GE Ports	24x RJ45, 2x SFP	12x RJ45, 2x SFP	24x RJ45, 4 x SFP	12x RJ45, 4 x SFP	4 x SFP
PoE GE Ports	-	12	-	-	-
PoE/+ GE Ports	-	-	-	12	24
Power Budget	-	100 W	-	185 W	370 W
Power Supply	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
GE Ports	24x RJ45, 4x SFP	12x RJ45, 4x SFP	4x SFP
PoE GE Ports	-	-	-
PoE/+ GE Ports*	-	12	24
Shared Ports (pair)	-	-	-
Power Budget	-	180 W	370 W
Power Supply	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
GE Ports	48x RJ45 4x SFP	24x RJ45 2x SFP	24x RJ45 4x SFP	4x SFP
PoE GE Ports	-	24	-	-
PoE/+ GE Ports	-	-	24	48
Power Budget	-	370 W	370 W	740 W
Power Supply	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
GE Ports	24	-	-	48	-	-
PoE/+ GE Ports	-	24	24	-	48	48
10GE SFP+ slots	2	2	2	4	4	
Power Budget	-	185 W	370 W	-	370 W	740 W
Power Supply	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
GE Ports	24	-	48	-
PoE/+ GE Ports	-	24	-	48
10GE SFP+ slots	4	4	4	4
40GE QSFP+ slots	2	2	2	2
Power Budget	-	500 W	-	750 W
Power Supply	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	-	-	-



Introducing FortiClient



Comprehensive end-point protection & security enforcement

Multifunctional Host Security

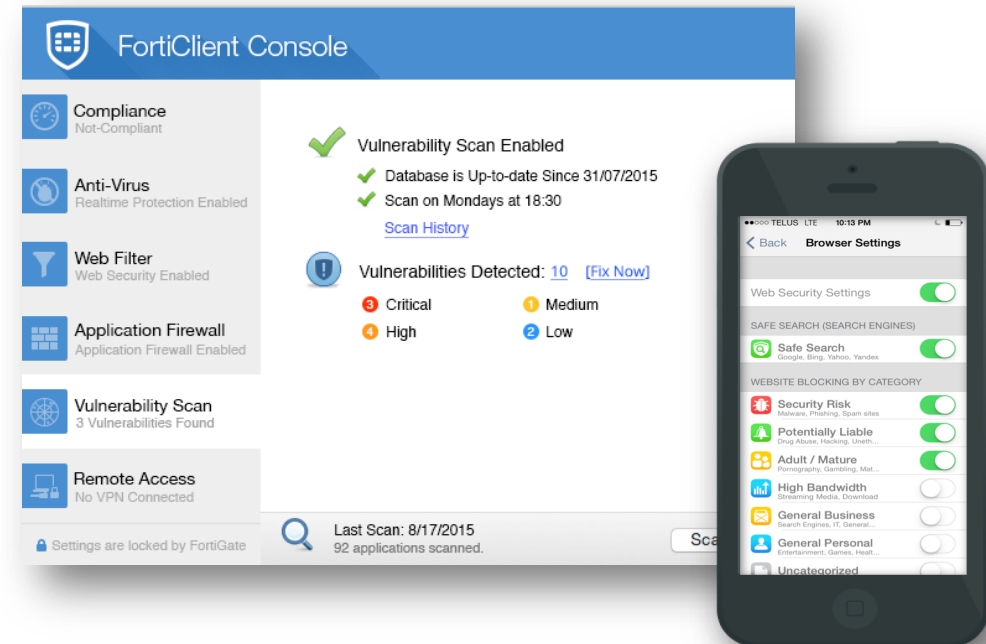
- Flexibility in deployment
- Fully integrated features, reduce needs for multiple client solutions

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
Security Fabric Components							
Endpoint Telemetry							
Compliance Enforcement			(Limited)	(Limited)			
Endpoint Audit and Remediation with Vulnerability Scanning							
Advanced Threat Protection Components							
ATP with FortiSandbox							
Host Quarantine Enforcement							
Host Security and VPN Components							
Antivirus							
Web Filtering							
Application Firewall							
IPSec VPN							
SSL VPN							

FortiClient V5.6

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



FortiToken

Introducing FortiToken



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

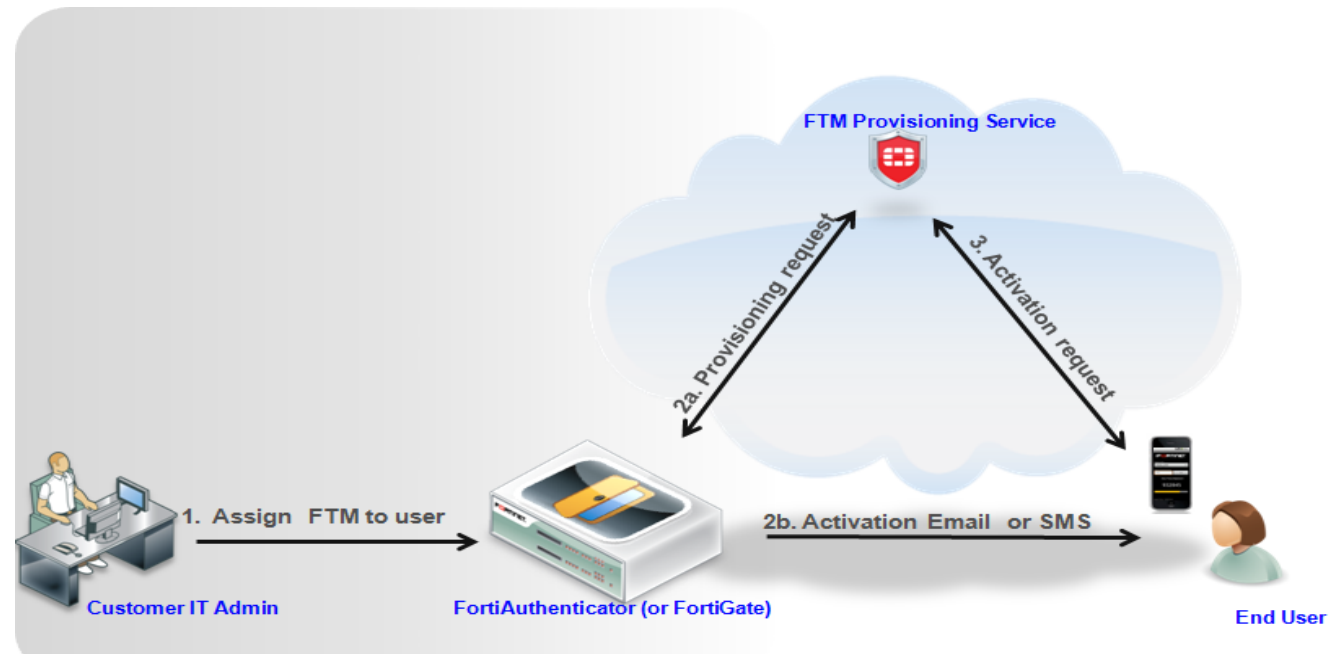
- Pin Protected App
- Device Binding
- Brute Force Protection
- Dynamic Seed Generation
- Encrypted Seed Storage

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)





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

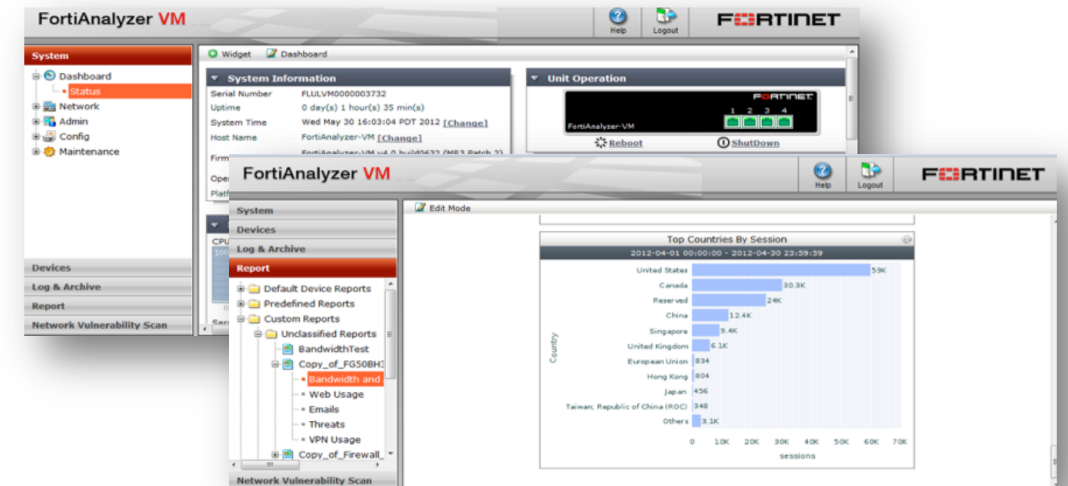
- Predefined Summary & Device Reports
- Hundreds of Customizable Charts & Graphs

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
GB/Day	200	600	1,000	3,000
Analytic Sustained Rate (logs/sec)	6,000	18,000	30,000	42,000
Collector Sustained Rate (logs/sec)	9,000	27,000	45,000	60,000
Max. Devices/ADOMs	200	2,000	2,000	4,000
Max Number of Days Analytics	30	30	30	21
Total Interfaces	4x GE RJ45	2x GE RJ45	4x GE RJ45, 2x GE SFP	4x GE RJ45, 2x GE SFP
Storage capacity	4x 3 TB	8x 3TB	12x 3TB	16x 3TB
RAID support	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
GB/Day	5,000	8,300
Analytic Sustained Rate (logs/sec)	63,000	100,000
Collector Sustained Rate (logs/sec)	90,000	150,000
Max. Devices/ADOMs	10,000	10,000
Max Number of Days Analytics	30	60
Total Interfaces	4x GE RJ45, 2x GE SFP	2x GE RJ45, 2x GE SFP+
Storage capacity	24x 3TB	60x 4TB
RAID support	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
GB/Day	1	+1	+5	+25	+100	+500	+2,000
Max. Devices/ADOMs	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Storage Capacity	200 GB	+500 GB	+3 TB	+10 TB	+24 TB	+48 TB	+100 TB
RAID Support	-	-	-	-	-	-	-



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

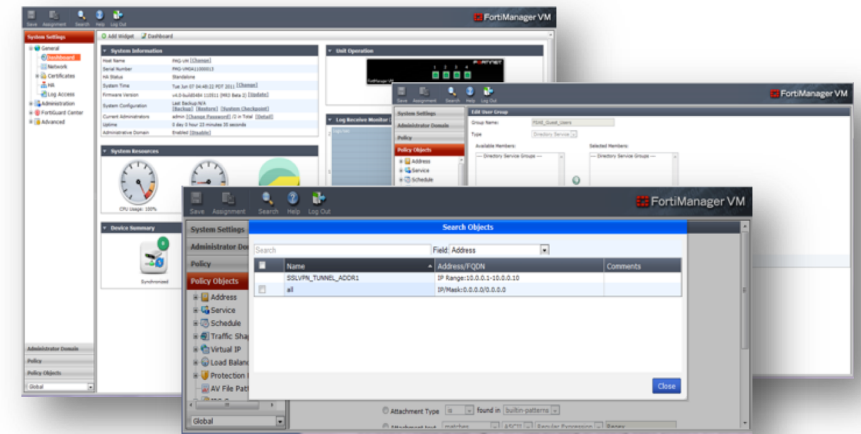
- Create Global Objects and Policies
- Assign to ADOM or groups of ADOMS
- Create device configuration templates to quickly configure a new Fortinet appliance

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

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

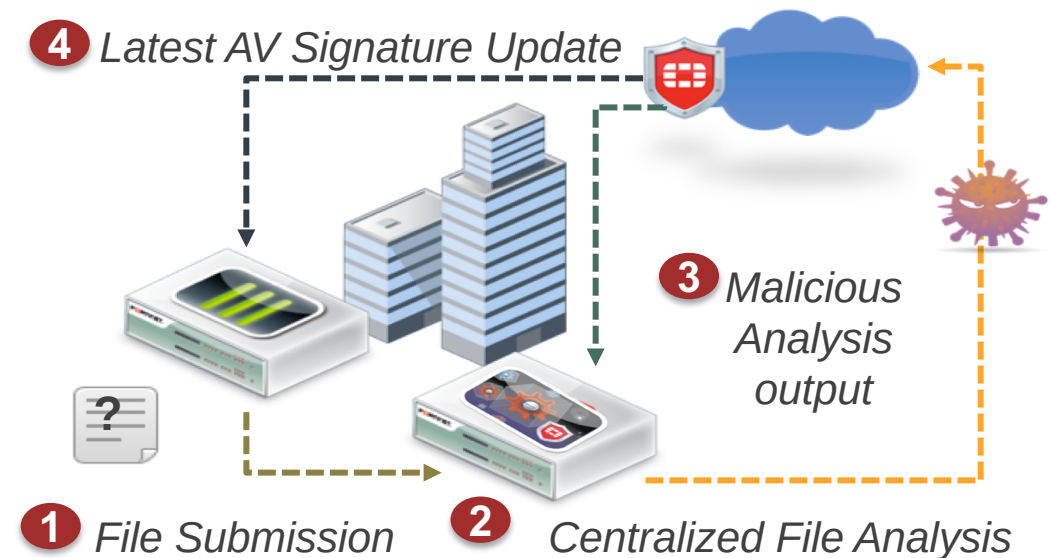
- Multi-layered filtering with Code Emulator, AV engine, Cloud query and Virtual OS sandbox
- Handles multiple file types, includes files that are encrypted or obfuscated
- Examine files from various protocols, included those that uses SSL encryption

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
VM Sandboxing (Files/Hour)	160	480	1,120	720* (Upgradable** to 1,200) (160 per node)	Hardware Dependent
AV Scanning (Files/Hour)	6,000	12,000	15,000	30,000* (Upgradable** to 48,000) (6,000 per node)	Hardware Dependent
Number of VMs	8	4+20 optional	8 + 48 optional	36* (Upgradable** to 60) (8 per node)	Total: 1 to 54
Interfaces	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

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FortiAuthenticator Series

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

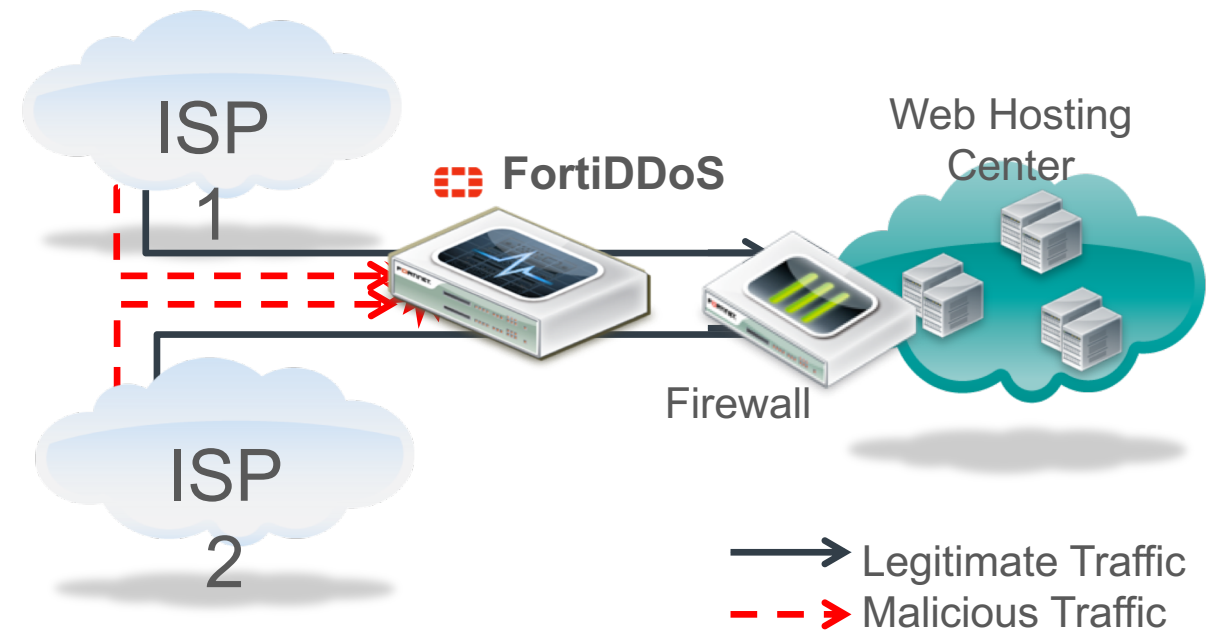
- Hardware based protection

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
Throughput (Full Duplex)	3 Gbps	6 Gbps	12 Gbps	12 Gbps	18 Gbps	18 Gbps	36 Gbps
Simultaneous Connections	1 Mil	1 Mil	2 Mil	2 Mil	3 Mil	3 Mil	4 Mil
Session Setup/Teardown	100,000 / Second	100,000 / Second	200,000 / Second	200,000 / Second	300,000 / Second	300,000 / Second	600,000 / Second
Latency	< 50 μ s	< 50 μ s	< 50 μ s	< 50 μ s	< 50 μ s	< 50 μ s	< 50 μ s
Interfaces	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/+
Advanced DNS Mitigation	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

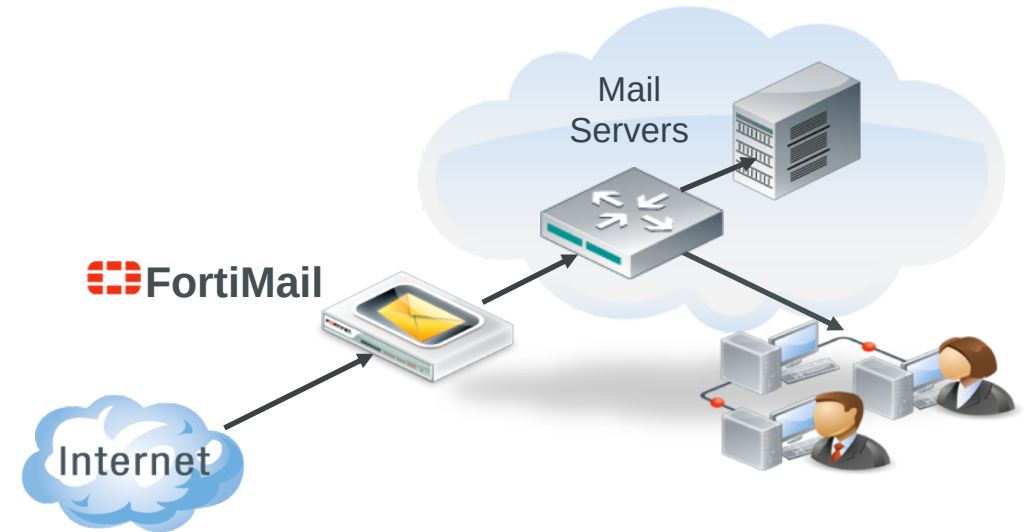
- Transparent, Gateway, and Server modes that adapts to organizational needs and budget

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

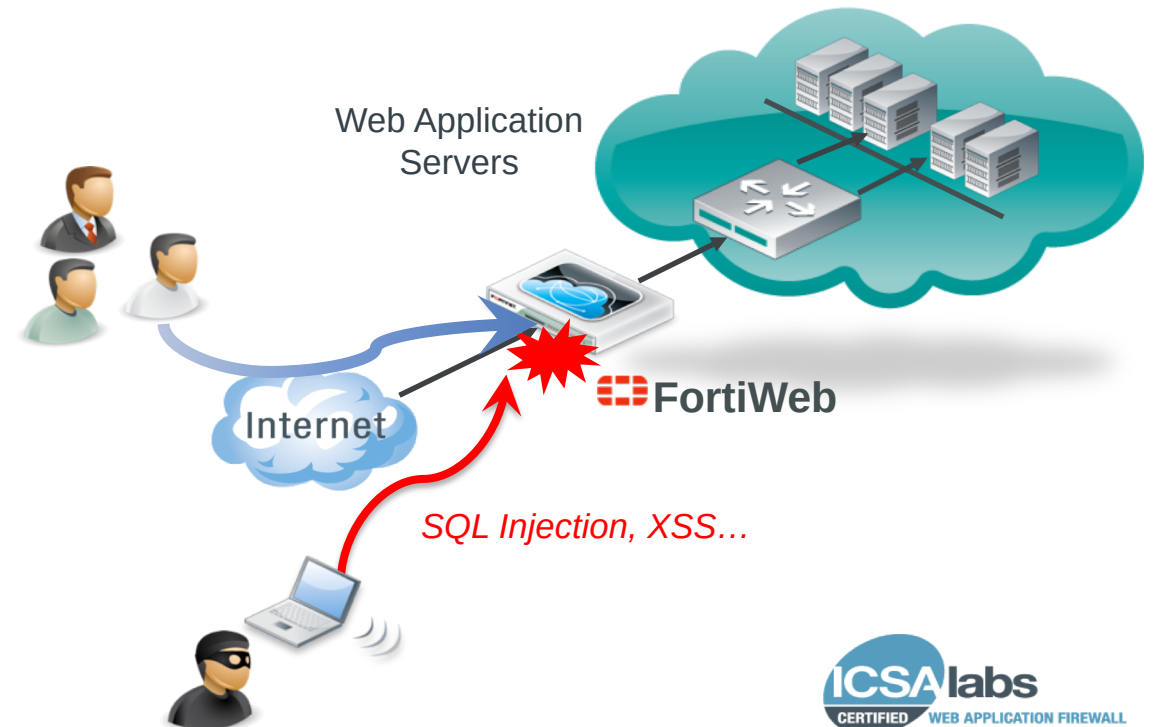
- Aids in PCI DSS 6.6 compliance
- Protection against OWASP Top 10
- Application layer DDoS protection
- Auto Learn security profiles
- Geo IP data analysis and security

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

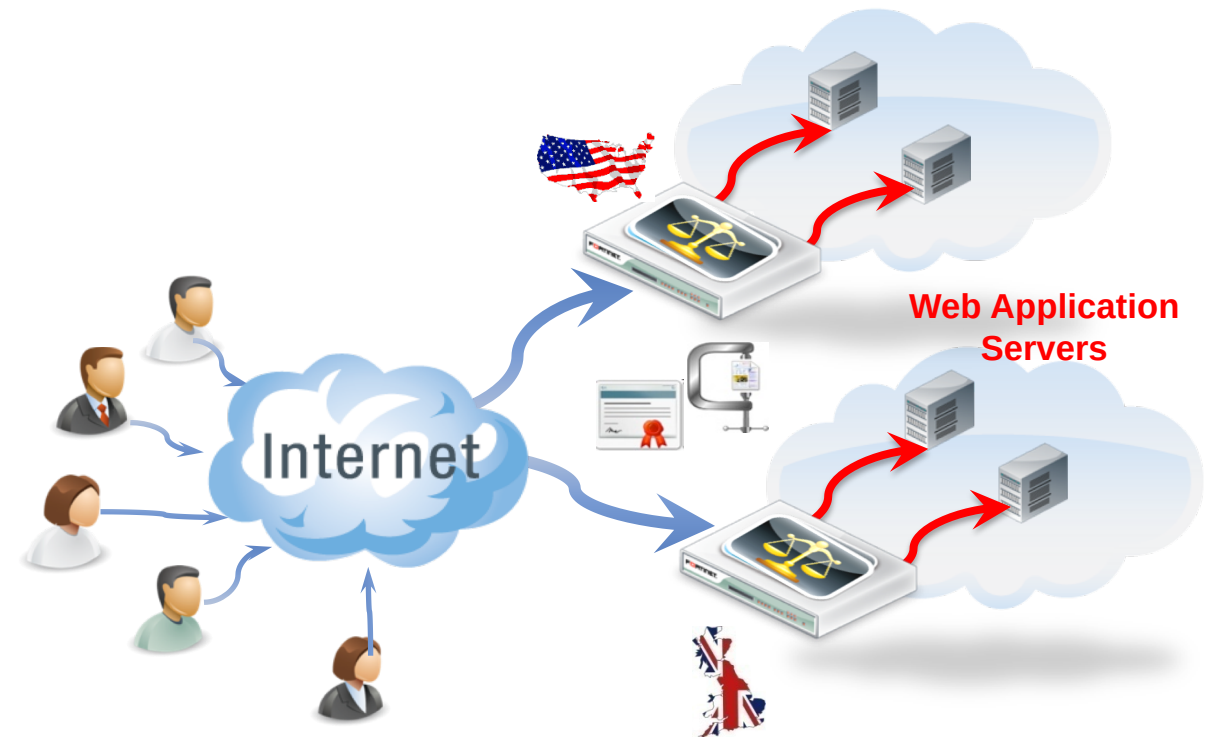
- Layer 2/3/4 and 7 load balancing techniques
- Application session persistence
- Proxy and transparent modes
- Global Server Load Balancing (GSLB) for geographic resilience
- Link Load Balancing

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
L4 Throughput	500 Mbps	1.5 Gbps	3 Gbps	6 Gbps	12 Gbps	20 Gbps	40 Gbps	60 Gbps
L7 RPS	100,000	400,000	600,000	725,000	1 Million	1.7 Million	2.6 Million	4.3 Million
L7 Throughput	450 Mbps	1.3 Gbps	2.5 Gbps	4 Gbps	8 Gbps	17 Gbps	25 Gbps	35 Gbps
SSL CPS 2048 Key	55	500	1,000	1,500	7,000	19,000	35,000	54,000
Total Interfaces	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
Power Supply	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.



Introducing FortiCache



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

Web Content Caching

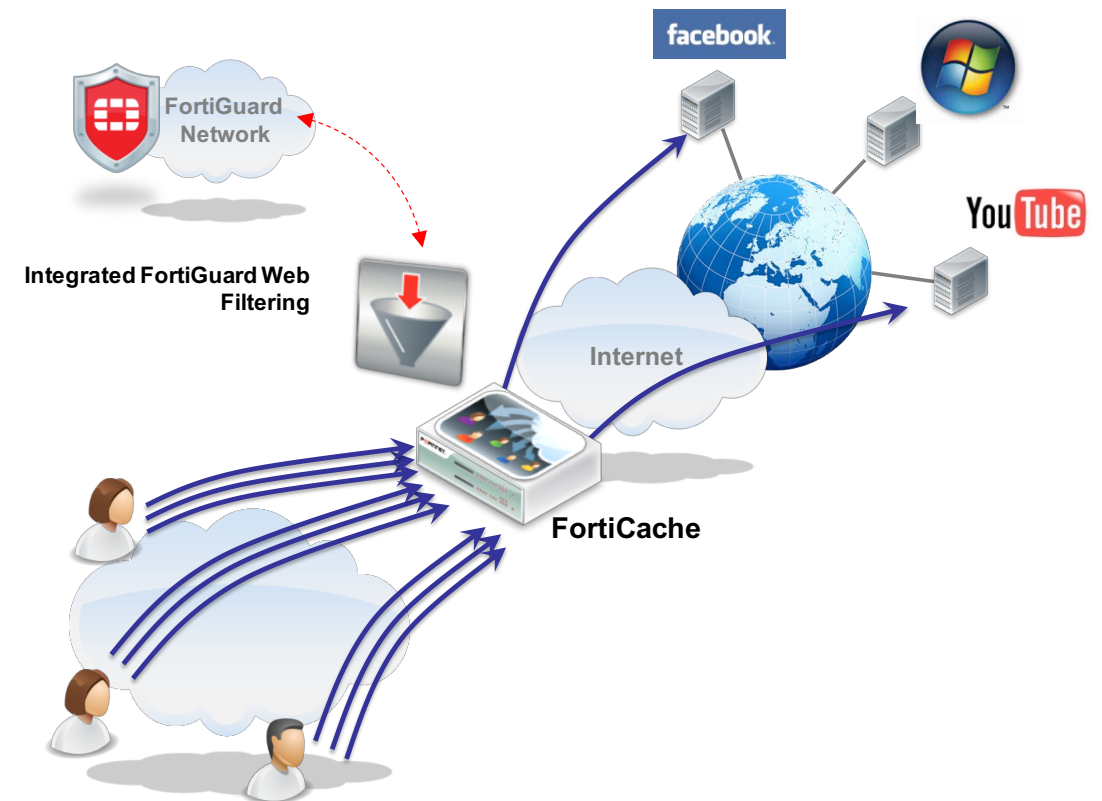
- High performance content caching
- Explicit or Transparent proxy cache
- FortiGuard Web Filtering

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





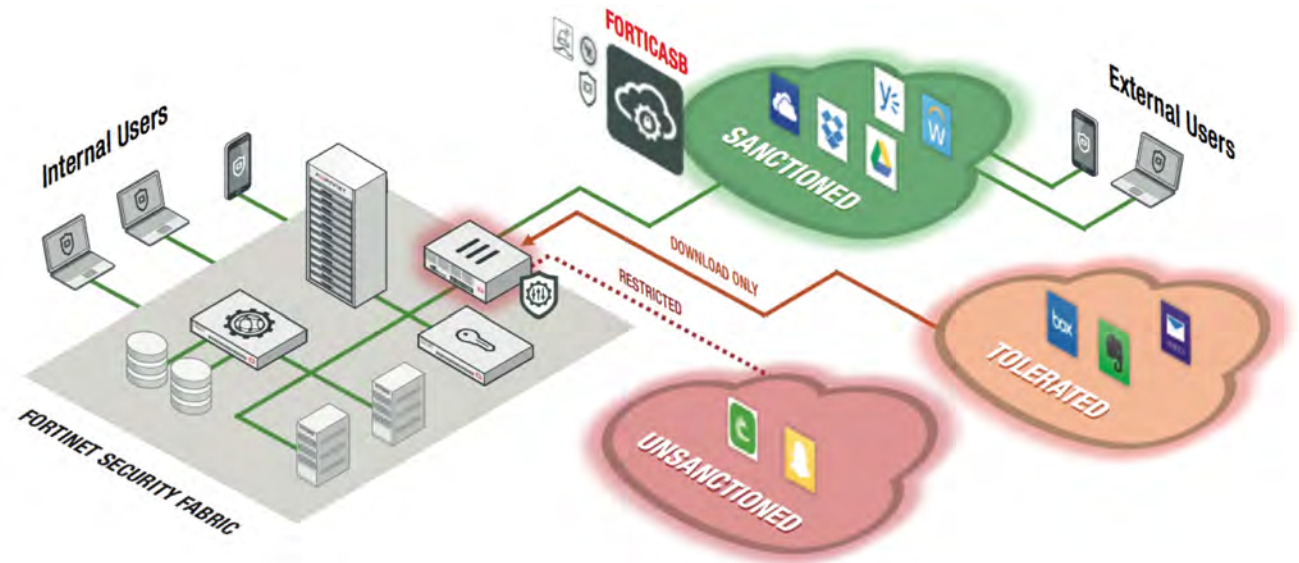
FortiCASB

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

FortiCamera Series



	FCM-FD40	FCM-FD20	FCM-MD20	FCM-MB40
Description	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
Camera	4 Megapixel Fixed Dome IP Camera	2 Megapixel Fixed Dome IP Camera	2 Megapixel Mini Dome IP Camera	4 Megapixel Mini box IP Camera
Additional Features	IR/Night Vision, Audio, DDO	IR/Night Vision, Vandal Proof	IR/Night Vision	IR/Night Vision
Total Interface	1x FE RJ45, 802.3af PoE	1x FE RJ45, 802.3af PoE	1x FE RJ45, 802.3af PoE	2x FE RJ45
Wireless AP	-	-	-	-

FortiCamera Series



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



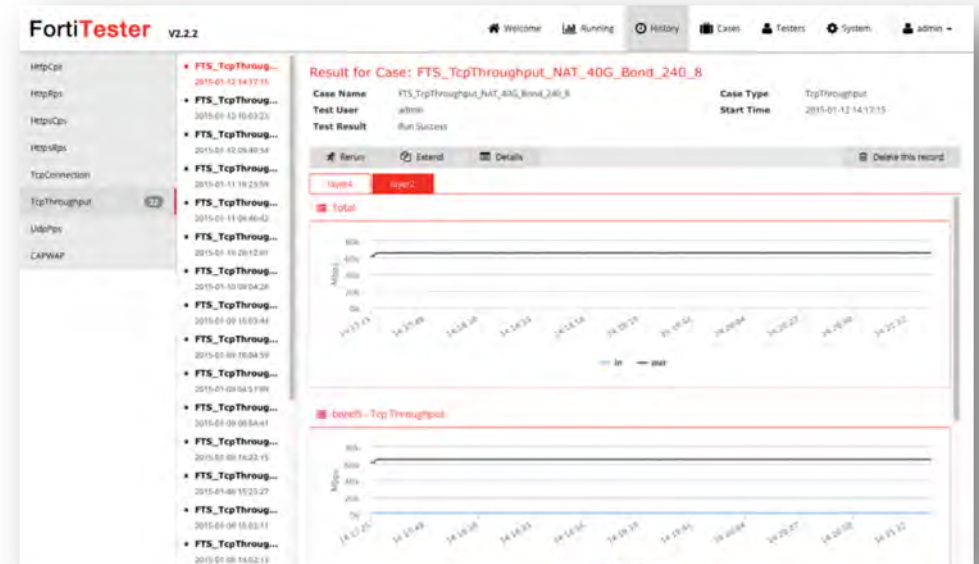
FortiTester

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

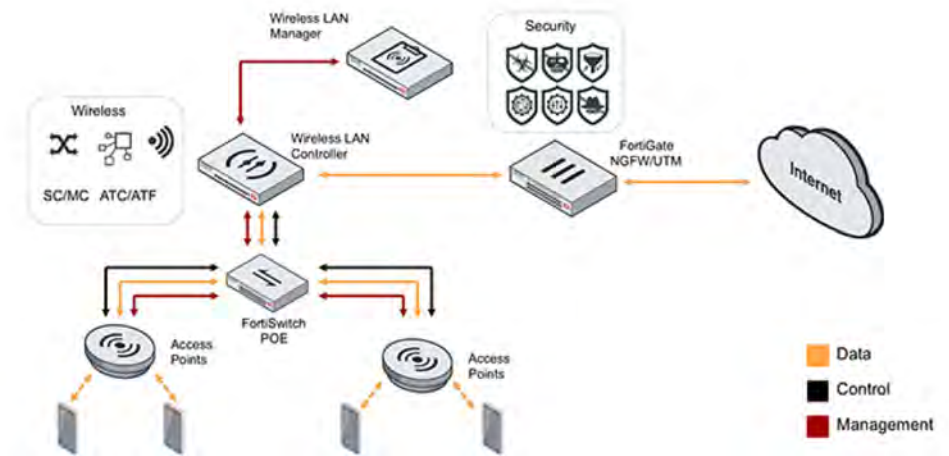


Introducing FortiWLC



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





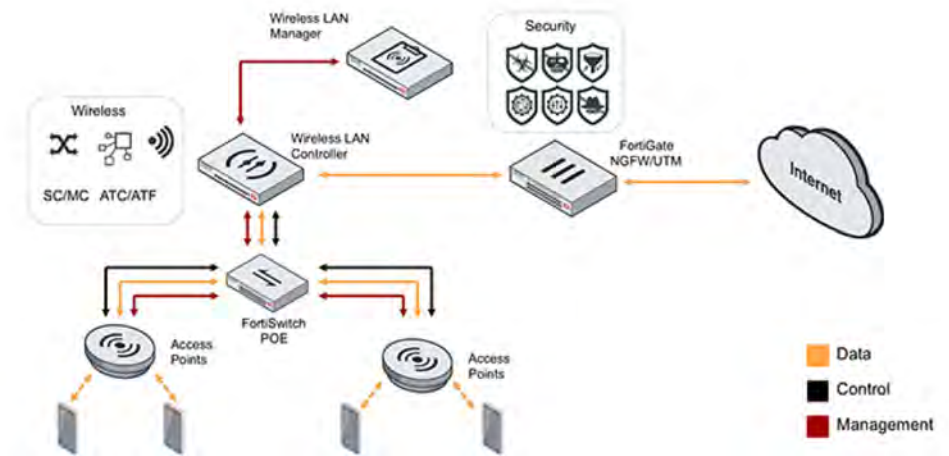
FortiWLM

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				*		• Security Audit Update ** • FortiCloud Sandbox, incl. VOS** and CDR **
FortiClient									• Vulnerability Scan
FortiSandbox									• File Query • Engine Update
FortiMail									• Virus Outbreak • Dynamic Adult Image Analysis
FortiWeb									• Credential Stuffing • FortiCloud Sandbox, incl. Virus Outbreak and CDR
FortiADC									
FortiCache									• Content Analysis
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 letter 'E' is also stylized with three horizontal bars. The letters 'R', 'T', 'I', 'N', 'E', and 'T' are in a standard sans-serif font. A registered trademark symbol (®) is located to the right of the final 'T'. The logo is centered horizontally on a dark blue background. The background features a complex, white, isometric line pattern of overlapping cubes and rectangular prisms, creating a sense of depth and architectural structure.

FERTINET®