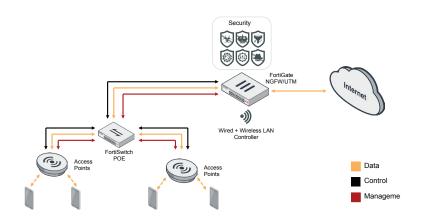


Fortinet Products for Wireless Solution

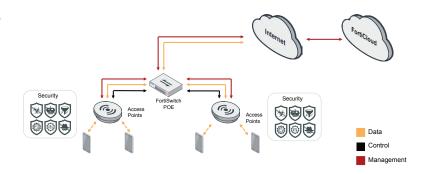
Integrated Wi-Fi

Our Integrated offering is a family of controller-managed access points which function in cooperation with a Forti-Gate, our industry leading enterprise firewall. In addition to consolidating all the functions of a network firewall, IPS, anti-malware, VPN, WAN optimization, Web filtering, and application control in a single platform, FortiGate also has an integrated Wi-Fi controller. Wi-Fi is either integrated directly into the FortiGate (FortiWiFi) or connected as an access point (FortiAP) directly to a FortiGate to provide comprehensive wireless coverage.



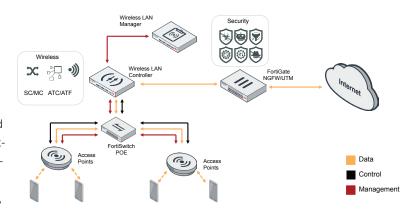
Cloud Wi-Fi

Our cloud managed WLAN solutions contain capabilities unlike any other cloud Wi-Fi offering in the industry. The FortiAP-S series combines the elements of advanced firewall protection at the network edge with the simplicity and convenience of cloud management through our FortiCloud service. FortiCloud management capabilities also extend beyond the management of FortiAP-S to FortiAP and more.



Infrastructure Wi-Fi

Our Infrastructure wireless offering, formerly Meru Networks, combines on-premise controller-based management, open application appliances, and a range of high-performance indoor and outdoor access points. This is the ideal solution when an organization needs to separate the access infrastructure from the underlying network's security infrastructure. With network controlled roaming, users benefit from the best possible mobility experience. The Infrastructure solution offers multiple channel configuration options and layering to simplify deployment while increasing performance, traffic segmentation, and capacity. This solution scales for implementation in small, medium, and large enterprises of all types.



FortiAP™ Integrated Indoor Access Points

Net		FAP-24D	FAP-221B/223B	FAP-221C/223C	FAP-320B	FAP-320C	FAP-321C
Secretary Secr				4	PARTITION	FERRITE	
Private Description Description of marketine Description D	Suggested Use Case	Low density indoor	Medium density indoor		High density indoor		Medium density 802.11ac indoor
Description Lock	Hardware			110001		marios socir rae indesi	11.0001
Resilient PDE Bockup Perum installable Machinery Device 1 (1906) Machi	Form Factor	Desktop, wall mountable			Wall or ceiling wall mountable	Wall or ceiling wall mountable	Smoke Detector, wall or ceiling wall mountable
Description	Dimension	6.69 x 4.37 x 1.02 in	6.5 x 1.2 in	6.5 x 1.5 in	6.5 x 6.5 x 1.6 in	6.5 x 6.5 x 1.4 in	6.5 x 1.5 in
Comment interiors	Kensington Lock		•	•	•	•	•
Precision 1902 and 1903 and	Ethernet Interfaces		1x GE RJ45	1x GE RJ45	2x GE RJ45	2x GE RJ45	1x GE RJ45
Meaning power draw 12.9 W	PoF	········	802 3af	802 3af	802 3af	802 3af	802.3af
Residence Resi							
Penum installable	Included accessories	Mounting kits			Mounting kits, anchors	Mounting kits, anchors	Mounting kits, anchors
Mesh capable	Resilient POE backup				•	•	
REES Standard 800.11 a/buly 802.11 a/bul		-	-	_	•	•	
EEE Standard 802.11 a/brigh 802.11		•	•	•	·	•	•
Number of Radios 1 2 2 2 2 2 2 2 2 2		802 11 a/h/n/n	802 11 a/h/n/n	802 11 a/h/n/n/ac	802 11 a/h/n/n	802 11 a/h/n/n/ac	802 11 a/h/n/n/ac
Radio 2 Band (association rate) - 2.4 GHz (300 Mbgs) - 2.2 (plus stream) - 3.3 (3 stream) - 4.4 (stream) - 4.4 (st		1		2			
MIMO		2.4 GHz / 5 GHz (300 Mbps)		2.4 GHz / 5GHz (300 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
Max / Recommended number of concurrent clidents no limit / 30 per radio no limit / 30 per radio no limit / 30 per radio no limit / 50 per	Radio 2 Band (association rate)	-	2.4 GHz (300 Mbps)	5GHz a/n/ac (867 Mbps)	5 GHz a/n (450 Mbps)	5 GHz a/n/ac (1300 Mbps)	5 GHz a/n/ac (1300 Mbps)
Concurrent Clients Continue		2x2 (dual stream)	2x2 (dual stream)	2x2 (dual stream)	3x3 (3 stream)	3x3 (3 stream)	3x3 (3 stream)
Antenna Gain		no limit / 30 per radio			no limit / 50 per radio	no limit / 50 per radio	no limit / 50 per radio
Max TX Power	Antenna Type and Count	2 - Internal			6 - Internal	6 - Internal	6 Internal
Number of SSIDS 8 (7 client, 1 monitor) 16 (14 client, 2 monitor) 16 (Antenna Gain	4.6dBi/(6.3dBi-5GHz)	3dBi/(4dBi-5GHz)	3.5dBi/(6dBi-5GHz)	5dBi/(6dBi-5GHz)	5dBi/(6dBi-5GHz)	4dBi/(5dBi-5GHz)
Traffic Queues 4 queues 802.11 m 12040Mhx HT							20 dBm (100mW)
802.11n 120.40Mhz HT							16 (14 client, 2 monitor)
802.11n MPDU/MSDU agg		4 queues •	4 queues	4 queues •	4 queues	4 queues	4 queues
802.11n KLDPC encoding 802.11n KLD, MRC 802.11ac 80 MHz channel 802.11ac 80 MH		•	•	•	•	•	•
802.11 a 80 MHz channel Rogue AP scanning Dual Band Scanning Background Scan Full-time dedicated monitor Single Radio Dual band scanning On-wire MAC address collector Management Webul & Cul External serial console port Controller discovery: DNS, DHCP, over 13 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Page Cartifestets Page Cartifestets Page 1, T (FAP-221C) Page 5 Page 5 A T Page 5 Page 5 A T Page 5 Page 5 A T Page 5 Page 6 A T Page 5 Page 7 A T	802.11n Dynamic MIMO PS	•	•	•	•	•	•
802.11ac 90 MHz channel Rogue AP Scanning Dual Band Scanning Seach Seac		•	•	•	•	•	•
Rogue AP scanning Dual Band Scanning Background Scan Full-time dedicated monitor Single Radio Dual band scanning On-wire MAC address collector Management WebUl & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications WEBUR & CLI Security Configuration Security Configuration Region E.J.T.(FAP-221C) Region E.J.T.(FAP-221C) Paging E. M. Region E.J.T. (FAP-221C)		•	•	•	•	•	•
Dual Band Scanning Background Scan Bac				•		•	•
Background Scan Full-time dedicated monitor Single Radio Dual band scanning On-wire MAC address collector Management Webull & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Certifications Wi-Fi Alliance Certified* Pegion E, J, T (FAP-221C)							•
Full-time dedicated monitor Single Radio Dual band scanning On-wire MAC address collector Management WebUl & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Certifications Wi-Fi Alliance Certified* Perion F. Marian F. Mari			•	•	•	•	•
Scanning On-wire MAC address collector Management WebUl & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Pagine F. J. T. (FAP-221C) Region E. J. T. (FAP-221C)		•	•	•	•	•	•
MebUl & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Certifications Wi-Fi Alliance Certiffied* Region E, J, T (FAP-221C) Region E, J, T (FAP-2			•	•			
WebUI & CLI External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E, J, T (FAP-221C)			•	•	•	•	•
External serial console port Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E, J, T (FAP-221C)							
Controller discovery: DNS, DHCP, over L3 boundary Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E, J, T (FAP-221C)		•	•	•	•	•	•
Cloud Management Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E, J, T (FAP-221C) Paging E, LA, T	Controller discovery: DNS, DHCP,	•	•	•	•	•	•
Zero touch deployment (FortiDeploy) Report and Visualization Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E. J., T (FAP-221C) Region E. J. T (FAP-221C)							
Wireless Configuration Security Configuration Certifications Wi-Fi Alliance Certified* Region E, J, T (FAP-221C) Perion E L A T Perion E	Zero touch deployment	•	•	•	•	•	
Security Configuration Certifications Wi-Fi Alliance Certified* • • • • • • • • • • • • • • • • • • •		•	•	•	•	•	
Certifications Wi-Fi Alliance Certified* • • • • • • PEC Certificat** 231D: Posice F. J. Region E. J., T (FAP-221C) Region E. J. T. Posice F. J. Region F. J. T. Posice F.		•	•	•	•	•	
Wi-Fi Alliance Certified* • • • • • • • PEC Contified** 231D: Posice F. J. Region E. J., T (FAP-221C) Region E. J. T. Posice F. J. T. Posi							
DEC Contified** Region E. J., T (FAP-221C) Paging E. J. A. T. Paging E							•
			•	Region F. J. T (FAP-221C)		•	·
	DFS Certified**		221B: Region E, J		Region E	Region E, J, A, T	Region E, J

FortiAP™ Integrated Remote Access Points

	FAP-11C	FAP-14C	FAP-21D	FAP-25D	FAP-28C
			######################################	. 00000 - 23	
Suggested Use Case	Portable AP for traveller	Remote office or SOHO desktop	FortiPresence Sensor or Travel/SOHO (USB powered)	Hotels/Hospitality desktop	Remote office or SOHO desktop
ardware					
orm Factor	Small, portable	Desktop, wall mountable	Small, portable	Small, portable Powerstrip design, wall mountable	Desktop, wall mountable
Dimension	4.3 x 3.5 x 1.5 in	1.06 x 4.92 x 3.86 in	2.9 x 3.2 x 0.9 in	0.9 x2.8 x1.4 in	1.38 x 8.43 x 7.09 in
ensington Lock					•
hernet Interfaces	2x GE RJ45	5x FE RJ45	2 x FE RJ45	1x GE RJ45 WAN, 4x FE RJ45 LAN	10x GE RJ45
oE aximum power draw					
cluded accessories	Power plugs	AC adaptor, Wall mount Kit	AC adaptor	AC adaptor, Wall mount Kit	AC adaptor, Wall mount Kit
esilient POE backup					
Plenum installable Nesh capable	•	•	•	•	•
Vireless					
EE Standard umber of Radios	802.11 b/g/n 1	802.11 b/g/n 1	802.11 b/g/n 1	802.11 a/b/g/n	802.11 a/b/g/n
adio 1 Band (association rate) adio 2 Band (association rate)	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 GHz / 5GHz (300 Mbps)	2.4 GHz / 5GHz (300 Mbps)
IMO	1x1 (1 stream)	1x1 (1 stream)	2x2 (dual stream)	2x2 (dual stream)	2x2 (dual stream)
ax / recommended number of ncurrent clients	no limit / 5	no limit / 10	no limit / 20	no limit / 20	no limit / 20
tenna Type and Count	1 - Internal	1 - Internal	2 - Internal	2 - Internal	2 - Internal
tenna Gain	2dBi	2dBi	2.5dBi	2dBi/3dBi-5GHz)	3dBi/(4dBi-5GHz)
x TX Power	17 dBm (50mW)	17 dBm (50mW)	17 dBm (50mW)	16 dBm (40mW)	17 dBm (50mW)
ımber of SSIDs	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)
ffic Queues 2.11n 20/40Mhz HT	4 queues	4 queues	4 queues	4 queues	4 queues
2.11n MPDU/MSDU agg 2.11n Dynamic MIMO PS					
02.11n LDPC encoding 02.11n MLD, MRC					
02.11ac 80 MHz channel					
ogue AP scanning				-	
ual Band Scanning ackground Scan				•	•
II-time dedicated monitor ngle Radio Dual band				•	•
canning n-wire MAC address collector				-	
anagement					
bUI & CLI	•	•	•	•	•
ternal serial console port ntroller discovery: DNS, DHCP,	•	•	•	•	•
rer L3 boundary loud Management					
ro touch deployment ortiDeploy)	•	•	•		•
eport and Visualization	•	•	•	•	•
/ireless Configuration	•	•	•	•	•
Security Configuration					
ertifications i-Fi Alliance Certified*					
i i i milalioo oo illiou		L			

FortiAP™ Integrated Outdoor Access Points

	FAP-112B	FAP-112D	FAP-222B	FAP-222C	FAP-224D	
			/=/			
	rome		77			
Suggested Use Case	Low density outdoor	Outdoor, POE pass-through for IP CCTV cameras.	Medium density outdoor	High density 802.11ac outdoor	Medium density outdoor	
lardware						
orm Factor	Outdoor IP55 rated, wall or pole wall mountable	Outdoor IP55 rated, wall or pole wall mountable	Outdoor IP67 rated, wall or pole wall mountable	Outdoor IP67 rated, wall or pole wall mountable	Outdoor IP66 rated, wall or pole wall mountable	
Dimension	7.3 x 2.6 x 1.3 in	10.51 x 5.71 x 1.73 in	2.75 x 7.75x10in	9.8 x 8.7 x 2.1 in	6.9 x 6.9 x 1.9 in	
Censington Lock			2.70 % 7.77 0.87 0.87			
thernet Interfaces	2x FE RJ45	2x FE RJ45 ports with PoE pass-through. (1x PoE-PD,	1x GE RJ45	1x GE RJ45	1x GE RJ45	
)oF	Drawinton	1x PoE-PS)	000 Oat 9 proprietory	000 Oat 9 proprietory	IEEE 000 Oof IEEE 000 Oot	
oE Naximum power draw	Proprietary 12.9 W	Proprietary 23.3 W	802.3at & proprietary 25 W	802.3at & proprietary 18.4 W	IEEE 802.3af, IEEE 802.3at 15.4 W	
ncluded accessories	AC adaptor & proprietary POE injector	AC adaptor & proprietary POE injector	AC adaptor & proprietary POE injector, outdoor Kit, antennas	AC adaptor & proprietary POE injector, outdoor Kit, antennas	AC adaptor & POE injector, outdoor Kit, antennas	,
Resilient POE backup						
Plenum installable						
Mesh capable	•	•	•	•	•	
Vireless						
EEE Standard	802.11 b/g/n	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n/ac	802.11 a/b/g/n	
Number of Radios	1 2.4.0Hz b/a/a/450 Mb-	2 4 047 / 5 045 (450 Mb.)	2 4 047 b/s/s (200 Mbs.)	2 5 CHz o/o/oc (007 MHz.)	2 5 CHz a/p (200 Mhps)	
ladio 1 Band (association rate) ladio 2 Band (association rate)	2.4 GHz b/g/n (150 Mbps) -	2.4 GHz / 5 GHz (150 Mbps)	2.4 GHz b/g/n (300 Mbps) 5 GHz a/n (300 Mbps)	5 GHz a/n/ac (867 Mbps) 2.4 GHz b/g/n (300 Mbps)	5 GHz a/n (300 Mbps) 2.4 GHz b/g/n (300 Mbps)	
/IMO	1x1 (1 stream)	1x1 (1 stream)	2x2 (dual stream)	2x2 (dual stream)	2x2 (dual stream)	,
Max / recommended number of oncurrent clients	no limit / 30	no limit / 30	no limit / 30 per radio	no limit / 30 per radio	no limit / 30 per radio	
ntenna Type and Count	1 - Internal	1 - Internal	4 N-type External	4 N-type External	4 RP-SMA External	
ntenna Gain	8 dBi	6 dBi / (6 dBi for 5 GHz)	5 dBi / (7 dBi for 5 GHz)	3.5 dBi / (6 dBi for 5 GHz)	5 dBi / (5 dBi for 5 GHz)	
Max TX Power	24 dBm (250mW)	18dBm (2.4 Ghz), 16dBm (5 Ghz)	27dBm (500mW)	26dBm (398mW)	20dBm (50mW)	
lumber of SSIDs	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)	16 (14 client,2 monitor)	16 (14 client,2 monitor)	16 (14 client,2 monitor)	
raffic Queues	4 queues	4 queues	4 queues	4 queues	4 queues	
02.11n 20/40Mhz HT			•	•	•	
02.11n MPDU/MSDU agg				•	•	
02.11n Dynamic MIMO PS				•	•	
02.11n LDPC encoding				•	•	
02.11n MLD, MRC	•	·			•	
802.11ac 80 MHz channel				·		
Rogue AP scanning Dual Band Scanning						
Background Scan			•	•	•	
Full-time dedicated monitor			•	•	•	
Single Radio Dual band canning						
On-wire MAC address collector	•	•	•	•	•	
Management (
VebUI & CLI	•	•	•	•	•	
xternal serial console port ontroller discovery: DNS, DHCP, ver L3 boundary	•	•	•	•	•	
Cloud Management						
ero touch deployment						
FortiDeploy)	•	-	•	-	<u>.</u>	
Report and Visualization	•	•	•	•	•	
Wireless Configuration Security Configuration	•	•	•	•	•	
Certifications Wi-Fi Alliance Certified*			•	•	•	

FortiAP-S Cloud Access Points

	FAP-S311C	FAP-S313C	FAP-S321C	FAP-S323C
				and a
Suggested Use Case	High density, high performance 802.11ac indoor			
Hardware				
Form Factor	Wall or ceiling wall mountable			
Dimension	8.5 x 8.5 x 1.38 in			
Kensington Lock	•	•	•	•
Ethernet Interfaces	1x GE RJ45	1x GE RJ45	1x GE RJ45	1x GE RJ45
PoE	802.3at	802.3at	802.3at	802.3at
Maximum power draw	18 W	18 W	23.5 W	23.5 W
Included accessories	Ceiling, T-Rail and wall mount kit			
Resilient POE backup Plenum installable Mesh capable				
Wireless				
IEEE Standard Number of Radios	802.11 a/b/g/n/ac 1	802.11 a/b/g/n/ac 1	802.11 a/b/g/n/ac 2	802.11 a/b/g/n/ac 2
Radio 1 Band (association rate)	2.4 GHz /5 GHz (up to 1300 Mbps)	2.4 GHz /5 GHz (up to 1300 Mbps)	2.4 GHz b/g/n (450 Mbps)	2.4 GHz b/g/n (450 Mbps)
Radio 2 Band (association rate)	-	-	5 GHz a/n/ac (1300 Mbps)	5 GHz a/n/ac (1300 Mbps)
MIMO	3x3 (3 stream)	3x3 (3 stream)	3x3 (3 stream)	3x3 (3 stream)
Max / recommended number of concurrent clients	no limit / 50 per radio			
Antenna Type and Count	3 - Internal	3 - RP-SMA External	3 internal	3 - RP-SMA External
Antenna Gain	2dBi/(3dBi-5GHz)	2dBi/(3dBi-5GHz)	2dBi/(3dBi-5GHz)	2dBi/(3dBi-5GHz)
Max TX Power	19 dBm (80 mW)	19 dBm (80 mW)	20 dBm (100 mW)	20 dBm (100 mW)
Number of SSIDs	16 (14 client,2 monitor)			
Traffic Queues	4 queues	4 queues	4 queues	4 queues
802.11n 20/40Mhz HT	•	•	•	•
802.11n MPDU/MSDU agg 802.11n Dynamic MIMO PS	•	•	•	•
802.11n LDPC encoding	•	•	•	•
802.11n MLD, MRC	•	•	•	•
802.11ac 80 MHz channel	•	•	•	•
Rogue AP scanning				
Dual Band Scanning	•	•	•	•
Background Scan Full-time dedicated monitor	•	•	•	•
Single Radio Dual band scanning	<u>-</u>	<u> </u>	<u>-</u>	<u>-</u>
On-wire MAC address collector				
Management				
WebUI & CLI	•	•	•	•
External serial console port Controller discovery: DNS, DHCP, over L3 boundary	•	•	•	•
Cloud Management				
Zero touch deployment (FortiDeploy)	•	•	•	•
Report and Visualization	•	•	•	•
Wireless Configuration	•	•	•	•
Security Configuration Certifications		•	•	•
Wi-Fi Alliance Certified*				
DFS Certified**				

FortiAP-C Cloud Access Points

Legislated Use Clase AP with tasks connectivity because Wall or calling and municibity With less connectivity because Wall or calling and municibity With less connectivity because Wall or calling and municibity With less connectivity because Wall or calling and municibity With less connectivity because Wall or calling and municibity With less connectivity because BEX 8.5 x 1.38 in		FAP-C220C	FAP-C225C		
Agriculture		TAP-02200	TAF-02230		
Agriculture					
Agriculture		PSENDON			
Agriculture		as to minimize the			
Agriculture					
Marchard Walf or celling walf mountable Walf or celling walf or walf walf Walf or celling walf or celling walf or walf Walf or celling walf Walf or	gested Use Case	AP with basic connectivity	AP with basic connectivity		
own Factor Wall or celling wall mountable Immension 8.5 x 8.5 x 1.38 in 8.5 x 8.5 x 1.38 in energington Lock Second Sec	dware				
Serington Lock		Wall or ceiling wall mountable	Wall or ceiling wall mountable		
### STATE OF THE PROPERTY OF T	ension			 	
### 15 A W		0.0 x 0.0 x 1.00 1	0.0 x 0.0 x 1.00 III	 	
DeE	sington Lock				
	ernet Interfaces	2x GE RJ45	2x GE RJ45		
		802.3af	802.3af		
Celling T-Rail and wall mount kit Celling T-Rail and wall wall wall celling T-Rail and wall wall wall wall celling T-Rail and wall wall wall wall wall wall wall celling T-Rail and wall wall wall wall wall wall wall wal					
Resilient PDE backup					
	uded accessories	mount kit			
Wireless SEE Standard 802.11 a/b/g/n/ac 802.11 a/b/g/n/ac Lumber of Radios 2 2 Ladio 1 Band (association rate) 2.4 GHz (up to 300 Mbps) 2.4 GHz (up to 867 Mbps) Ladio 2 Band (association rate) 5 GHz (up to 867 Mbps) 5 GHz (up to 867 Mbps) MIMO 2x2 (2 stream) 2x2 (2 stream) Max / recommended number of oncurrent clients 32 / 20 per AP 32 / 20 per AP Intenna Type and Count 4 - Internal 4 - RP-SMA External Intenna Gain 3.5 d8/l/6d8-5GHz) 3 dBm (200 mW) Lumber of SSIDs 4 4 Art TX Power 2.3 dBm (200 mW) 23 dBm (200 mW) Lumber of SSIDs 4 4 Lumber of SSIDs 4 4 <td></td> <td></td> <td></td> <td></td> <td></td>					
See Standard So 2.11 a/b/gh/ac So 2.11 a/b/gh/ac So 2.11 a/b/gh/ac So 2.11 a/b/gh/ac So 3.00					
Bumber of Radios 2 2 Ladio 1 Band (association rate) 2.4 GHz (up to 300 Mbps) Ladio 2 Band (association rate) 5 GHz (up to 867 Mbps) MIMO 2x2 (2 stream) 2x2 (2 stream) Max / recommended number of concurrent clients 32 / 20 per AP 32 / 20 per AP Interna Type and Count 4 - Internal 4 - RP-SMA External Interna Gain 3.5 dBl/(6dBl-5GHz) 3 dBm/(200 mW) Max TX Power 23 dBm (200 mW) 23 dBm (200 mW) Jumber of SSIDs 4 4 4 queues 4 queues 402.11n 2D/40Mbrz HT • 902.11n MDJ/MSDU agg • 902.11n MDJ, MRC • 902.11n MLD, MRC • 902.11a MLD, MRC • 902.11a Band Scanning • 10a Band Scanning • <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
Addio 1 Band (association rate) 2.4 GHz (up to 300 Mbps) 2.4 GHz (up to 867 Mbps)				 	
Indio 2 Band (association rate) 5 GHz (up to 867 Mbps) 5 GHz (up to 867 Mbps) IMMO 2x2 (2 stream) 2x2 (2 stream) Max / recommended number of oncurrent clients 32 / 20 per AP 32 / 20 per AP Interna Type and Count 4 - Internal 4 - RP-SMA External Interna Gain 3.5 dBV/(6dBi-5GHz) 3 dBV/(3dBi-5GHz) Interna Gain 4 deques 4 deques Interna Gain 4 queues 4 queues Interna Gain 4 queues 4 queues <td>nper of Hadios</td> <td></td> <td>2</td> <td></td> <td></td>	nper of Hadios		2		
MIMO 2x2 (2 stream) 2x2 (2 stream) Max / recommended number of oncurrent clients 32 / 20 per AP 32 / 20 per AP Interna Type and Count 4 - Internal 4 - RP-SMA External Interna Gain 3.5 dBI/(6dBI-5GHz) 3 dBI/(3dBI-5GHz) Max TX Power 23 dBm (200 mW) 23 dBm (200 mW) Illumber of SSIDS 4 4 4 Internal Counts 4 - Queues 4 queue	io 1 Band (association rate)	2.4 GHz (up to 300 Mbps)	2.4 GHz (up to 300 Mbps)		
Asa / recommended number of oncurrent clients	io 2 Band (association rate)	5 GHz (up to 867 Mbps)	5 GHz (up to 867 Mbps)		
Section Sect	10	2x2 (2 stream)	2x2 (2 stream)		
Naterina Gain 3.5 dBi/(6dBi-5GHz) 3 dBi/(3dBi-5GHz) 3 dBi/		32 / 20 per AP	32 / 20 per AP	 	
lax TX Power 23 dBm (200 mW) 23 dBm (200 mW) umber of SSIDS 4 4 affic Queues 4 queues 4 queues 02.11n 20/40Mhz HT 02.11n MPDU/MSDU agg • • • • 02.11n Dynamic MIMO PS • • • 02.11n LDPC encoding • • • 02.11n MLD, MRC • • • 02.11ac 80 MHz channel • • • • 02.11ac 80 MHz channel • • • • 02.11ac 80 MHz channel • • • 10.11ac 80 MHz channel •	enna Type and Count	4 - Internal	4 - RP-SMA External		
ax TX Power 23 dBm (200 mW) 23 dBm (200 mW) umber of SSIDS 4 4 affic Queues 4 queues 4 queues 02.11n 20/40Mhz HT 02.11n MPDU/MSDU agg • • • • • • • • • • • • • • • • • •	enna Gain	3.5 dBi/(6dBi-5GHz)	3 dBi/(3dBi-5GHz)		
Jumber of SSIDs 4 4 4 Faffic Queues 4 queues 4 queues 102.11n 20/40Mhz HT • • • • • • • • • • • • • • • • • •	TX Power				
raffic Queues 4 queues 4 queues 02.11n 20/40Mhz HT • • • 02.11n MPDU/MSDU agg • • 02.11n Dynamic MIMO PS 02.11n LDPC encoding • • • 02.11n MLD, MRC • • • 02.11a 80 MHz channel • • • • • • • • • • • • • • • • • • •					
D2.11n 20/40Mhz HT D2.11n MPDU/MSDU agg D2.11n Dynamic MIMO PS D2.11n LDPC encoding D2.11n MLD, MRC D2.11n MLD, MRC D2.11a 80 MHz channel D2.11a 80 MHz channel D3.11a 80 MHz c					
12.11n MPDU/MSDU agg		+ queues •	+ queues		
02.11n Dynamic MIMO PS • • • • • • • • • • • • • • • • • • •		•	•		
02.11n LDPC encoding 02.11n MLD, MRC 02.11ac 80 MHz channel 02.11ac 80 MHz channel 03.11ac 80 MHz channel 04.11ac 80 MHz channel 05.11ac 80 MHz channel 05.11ac 80 MHz channel 06.11ac 80 MHz channel 07.11ac 80 MHz channel 08.11ac 80 MHz channel 09.11ac		•	•		
02.11n MLD, MRC 02.11ac 80 MHz channel 10gue AP scanning ual Band Scanning ackground Scan ull-time dedicated monitor ingle Radio Dual band canning n-wire MAC address collector		•	•		
togue AP scanning ual Band Scanning ackground Scan ull-time dedicated monitor ingle Radio Dual band canning n-wire MAC address collector		•	•		
Dual Band Scanning Background Scan Ull-time dedicated monitor Single Radio Dual band canning On-wire MAC address collector	.11ac 80 MHz channel	•	•		
lackground Scan iull-time dedicated monitor single Radio Dual band canning in-wire MAC address collector	jue AP scanning				
ull-time dedicated monitor single Radio Dual band canning on-wire MAC address collector					
ingle Radio Dual band canning n-wire MAC address collector					
canning On-wire MAC address collector					
n-wire MAC address collector					
Nanagement State of the Control of t	nagement				
VebUl & CLI	=	•	•		
xternal serial console port					
ontroller discovery: DNS, DHCP, ver L3 boundary	troller discovery: DNS, DHCP,	•	•	 	
loud Management					
ero touch deployment	touch deployment				
FortiDeploy)		_			
leport and Visualization • •		•	•		
Vireless Configuration • •		•	•		
ecurity Configuration Certifications					
Vi-Fi Alliance Certified*					
// / / / / / / / / / / / / / / / / / /			L		

FortiWiFi[™] Firewall and Wi-Fi Gateway

		<u> </u>			
	FWF-30D	FWF-30E	FWF-50E	FWF-60D	FWF-80CM
					11.
	#####				
		TOTAL TITLE &	FORMER THEFT	CONTROL CONTRO	MANAGE TO SERVICE STATE OF THE
uggested Deployment	Home/small office	Home/small office	Home/small office	Distributed office	Distributed office
ardware					
orm Factor	Desktop, wall mountable	Desktop, wall mountable	Desktop, wall mountable	Desktop, wall mountable	Desktop, wall mountable
					1.75 x 10.87 x 6.13 in
imension	1.38 x 7.17 x 5.24 in	1.61 x 8.27 x 5.24 in	1.44 x 5.5 x 8.52	1.50 x 8.50 x 5.83 in	1./5 % 10.0/ % 0.13 1
ensington Lock	•				•
thernet Interfaces	1 x GE RJ45 WAN, 4 x GE RJ45 Switch ports	1 x GE RJ45 WAN, 4 x GE RJ45 Switch ports	2 x GE RJ45 WAN, 5 x GE RJ45 Switch ports	3 x GE RJ45 WAN/DMZ, 7 x GE RJ45 Switch ports	2 x GE RJ45 WAN, 1 x FE RJ45 DMZ, 6 x FE RJ45 Switch ports
lesh Root			•	•	•
ther WiFi Variants	POE (PSE)	_	+ Storage (FWF-51E)	POE (PSE)	_
	. 52 (. 52)		1 0.0. ago (1 111 0 12)	1 02 (1 02)	
/ireless	000.44 - /-/	000 11 - /- /	000 11 - 1-7	000 11 - /- /	000.11 4.77
EE Standard	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n
lumber of Radios ladio 1 Band (association rate)	ı 2.4GHz / 5GHz (300Mbps)	1 2.4GHz / 5GHz (300Mbps)	2.4GHz / 5GHz (300Mbps)	2.4GHz / 5GHz (300Mbps)	2.4GHz / 5GHz (300Mbps
adio 2 Band (association rate)	2.40HZ / JUHZ (JUUNNUUS) -	2.40HZ / JUNZ (JUUNIUUS) -	2.40Hz / 30Hz (300NDpS) -	2.4ui iz / Junz (Juulviups) -	Z.4UHZ / OUHZ (SUUMIDDS
IIMO	2x2	2x2	2x2	2x2	2x3
lax / recommended number of					
oncurrent clients	no limit / 30	no limit / 30			
ntenna Type and Count	2 F-type antennas	2 F-type antennas	2 F-type antennas	2 di-pole antennas	2 di-pole antennas
ntenna Gain	up to 5dB	up to 5dB	up to 5dB	up to 5dB	up to 5dB
ax TX Power	17dBm	17dBm	17dBm	17dBm	17dBm
umber of SSIDs	8 (7 client, 1 monitor)	8 (7 client, 1 monitor)			
affic Queues	4 queues	4 queues	4 queues	4 queues	4 queues
02.11n 20/40Mhz HT hort Guard	•	•		•	•
nort Guard 02.11ac 80 MHz channel	•	•	•	•	•
IAC Service Data Unit (MSDU)					
ggregation and MAC Protocol ata Unit (MPDU) frame ag- regation	•	•	•	•	•
yclic-delay diversity (CDD)	•	•	•	•	•
ower Save (WME-PS)	•	•	•	•	•
02.11n Max ratio combining	•	•	•	•	•
MRC)					
ransmit Beam Forming (TxBF) ow Density Parity Check	•	•	•	•	
ncoding (LDPC)	•	•	•	•	
02.11n Maximum Likelihood etection (MLD)	•	•	•	•	•
ogue AP scanning					
ual Band Scanning	•	•	•	•	•
ackground Scan	•	•	•	•	•
ull-time dedicated monitor	•	•	•	•	•
ingle Radio Dual band canning	•	•	•	•	•
n-wire MAC address collector	•	•	•	•	•
lanagement					
/ebUI & CLI	•	•	•	•	•
lax managed APs	2	2	10	10	32
loud deployment support	•	•	•	•	•
ertifications					
'i-Fi Alliance Certified*					
OFS Certified**	Region: J			Region: J	

FortiWiFi[™] Firewall and Wi-Fi Gateway

FWE-90D	FWF-92D
TWI-90D	T WI -92D
4=	
1	:::::::
Indoor Motolo Clinico Cmall	Indoor Motels, Clinics, Small
Enterprise, Retail	Enterprise, Retail
Desktop, wall mountable	Desktop, wall mountable
1.72 x 8.5 x 8.78 in	1.72 x 8.5 x 8.78 in
•	•
2 x GE RJ45 WAN ports,	2 x GE RJ45 WAN ports,
	14 x GE RJ45 Switch ports
	•
POE (PSE)	
802.11a/b/g/n	802.11a/b/g/n
1	1
2.4GHz / 5GHz (300Mbps)	2.4GHz / 5GHz (300Mbps)
-	-
2x2	2x2
no limit / 20	no limit / 30
110 1111111 / 30	110 1111111.7 30
2 di-pole antennas	2 di-pole antennas
up to 5dB	up to 5dB
17dBm	17dBm
8 (7 client, 1 monitor)	8 (7 client, 1 monitor)
4 queues	4 queues
•	•
•	•
•	•
•	•
	······································
•	•
•	•
•	•
•	•
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•	•
•	•
•	•
•	•
•	
	32
•	•
	Desktop, wall mountable 1.72 x 8.5 x 8.78 in 2 x GE RJ45 WAN ports, 14 x GE RJ45 Switch ports POE (PSE) 802.11a/b/g/n 1 2.4GHz / 5GHz (300Mbps) 2x2 no limit / 30 2 di-pole antennas up to 5dB 17dBm 8 (7 client, 1 monitor) 4 queues 4

FortiGate/FortiWiFi® Wireless Controller (with FortiOS 5.4)

	FortiGate/FortiWiFi 30D, 30E, 50E & 60D Series	FortiGate/FortiWiFi 70D, 80D, 90D, 92D Series	FortiGate 100D Series	FortiGate 200D Series	FortiGate 300D, 400D & 500D
Hardware					
Product Range / Form Factor	Entry / Desktop	Entry / Desktop-2 RU	Mid Range / 1 RU	Mid Range / 1-2 RU	Mid Range / 1 RU
GE Interfaces	5-10	4 - 78	8 - 40	18 - 88	10 - 18
GE PoE/PoE+ Interfaces	2 / - (FG-60D-P0E)	4 / - (FG-90D/70D-POE)	16 (FG-140D-POE)	8 (FG-200D-P0E) 24 (FG-240D-P0E) 32 (FG-280D-P0E)	-
10 GE Interfaces	-	-	-	-	-
40 GE Interfaces	-	-	-	-	-
Capacity					
Maximum Supported APs (Tunnel Mode)	2 - 5	16	32	64	256
Maximum Supported APs (Total)	2 - 10	32	64	128	512
Max number of SSIDs	32	32	256	256	256
Max CAPWAP throughput	250 Mbps - 1.9 Gbps	260 Mbps - 1.2 Gbps	1.2 Gbps	1.8 Gbps	5.4 - 10 Gbps
Max Concurrent Sessions	500 K - 1.8 Mil	1.5 - 2 Mil	3 Mil	3.2 Mil	5.5 - 6 Mil
	FortiGate 600C, 600D, 800C, 800D & 900D	FortiGate 1000 & 3000 Series	FG-5000 Series	FG-VM Series	
Hardware					
Product Range / Form Factor	Mid Range / 1 RU	High End / 2-3 RU	High End / 3-13 RU	-	
GE Interfaces	16-34	18 - 34	2 - 28	Refer to Datasheet	
GE PoE/PoE+ Interfaces	-	-	-	-	
10 GE Interfaces	0 - 2	2 - 48	2 - 112	Refer to Datasheet	
40 GE Interfaces	-	4	-	-	***************************************
100 GE Interfaces	-	6	2	-	
Capacity					
Maximum Supported APs (Tun- nel Mode)	512	1,024	Up to 14,336 (1,024/blade)	32 - 1,024	
Maximum Supported APs (Total)	1,024	4,096	Up to 57,344 (4,096/blade)	64 - 4,096	
Max number of SSIDs	256	1,024	Up to 14,336 (1,024/blade)	32 - 1,024	
Max CAPWAP throughput	5.5 Gbps - 11 Gbps	11 Gbps - 22 Gbps	Refer to Datasheet	Refer to Datasheet	
Max Concurrent Sessions	3 - 11 Mil	11 - 95 Mil	10 - 100 Mil	Refer to Datasheet	

^{*} Certification covers following specifications: - 802.11a/b/g/n, Short Guard Interval, TX A-MPDU, STBC, 40 MHz operation in 5 GHzWPATM Personal, WPATM Enterprise / Personal, WPA^{2TM}, Enterprise / Personal, WMMTM, EAP-TLS, EAP-TTLS/MSCHAP/2, PEAP/0/EAP-MSCHAP/2, PEAP/0/EAP-GTC, EAP-SIM, EAP-AKA, EAP-FAST, 802.11 d/n, WMM Power Save.

** Requires latest FortiOS version.

Fortinet Infrastructure Wi-Fi Access Points

	AP 1010i/1010e	AP 1020i/1020e	AP 122	AP 822i/822e	AP 832i/832e	OAP 832e
	· · ·					E. Q. F. Q. F.
Suggested Use Case	Classrooms, Dormitory Com- mon Areas, Moderate Density Enterprise	Classrooms, Dormitory Com- mon Areas, Moderate Density Enterprise	In-room hotel, hospital, dormitory	Classrooms, Dormitory Com- mon Areas, Moderate Density Enterprise	Conference Rooms, Lecture Halls, Hospitals, Stadiums	Parking Lots, Courtyards, University Grounds
Hardware						
Form Factor	Wall or ceiling wall mountable	Wall or ceiling wall mountable	Small, wall mountable	Wall or ceiling wall mountable	Wall or ceiling wall mountable	Outdoor 67 rated, wall or pole wall mountable
Dimension	6.75 x 6.50 x 2.50 in / 6.33 x 4.50 x 1.50 in	6.75 x 6.50 x 2.50 in / 6.33 x 4.50 x 1.50 in	5.51 x 5.35 x 1.18 in	7.1 x 7.1 x 2.7 in	7.1 x 7.1 x 2.7 in	11.0 x 8.54 x 2.0 in
Ethernet Interfaces	1x GE RJ45 (PD)	1x GE RJ45 (PD)	1x GE RJ45 (PD), 1x FE, 1x FE PoE (PSE), 1x pass through RJ45 pair	1x GE RJ45 (PD), 1x GE RJ45	1x GE RJ45 (PD), 1x GE RJ45	1x GE RJ45 (PD), 1x GE RJ45
PoE	802.3af	802.3af	802.3af, 802.3at	802.3af, 802.3at	802.3af, 802.3at	802.3at
Included accessories	Lockable Mounting kit + Key	Lockable Mounting kit + Key	Mounting kit	Mounting kits	Mounting kits	Mounting kits
Mesh capable	•	•		•	•	•
Wireless						
IEEE Standard	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Number of Radios	1	2	2	2	2	2
Radio 1 Band (association rate)	2.4 GHz / 5 GHz (300Mbps)	2.4 GHz / 5 GHz (300Mbps)	2.4 GHz / 5 GHz (300 Mbps)	2.4 GHz / 5 GHz (300 Mbps)	2.4 GHz / 5 GHz (1,300 Mbps)	2.4 GHz (450 Mbps)
Radio 2 Band (association rate)	-	2.4 GHz / 5 GHz (300Mbps)	5 GHz a/n/ac (867 Mbps)	5 GHz a/n/ac (867 Mbps)	2.4 GHz / 5 GHz (1,300 Mbps)	5 GHz a/n/ac (1,300 Mbps)
MIMO	2x2 (dual stream)	2x2 (dual stream)	2x2 (dual stream)	2x2 (dual stream)	3x3 (3 stream)	3x3 (3 stream)
Antenna Type and Count	1010i: 2 - Internal 1010e: 2 - External	1020i: 4 - Internal 1020e: 4 - External	4 - Internal	822i: 4 - Internal 822e: 4 - External	832i: 6 - Internal 832e: 6 - External	6 N-type External
Antenna Gain	1010i: 4 dBi / (5 dBi for 5 GHz) 1010e: 2 dBi / (3 dBi for 5 GHz)	1020i: 4 dBi / (5 dBi for 5 GHz) 1020i: 2 dBi / (3 dBi for 5 GHz)	3.6 dBi / (6 dBi for 5 GHz)	3.6 dBi / (5 dBi for 5 GHz)	832i: 2.5 dBi / (4 dBi for 5 GHz) 832e: 3 dBi / (4 dBi for 5 GHz)	6 dBi / (74 dBi for 5 GHz)
Max TX Power	23 dBm (2.4 GHz) 19 dBm (5 GHz)	23 dBm (2.4 GHz) 19 dBm (5 GHz)	21 dBm (2.4 GHz) 19 dBm (5 GHz)	24 dBm (2.4 GHz) 23 dBm (5 GHz)	24 dBm (2.4 GHz) 22 dBm (5 GHz)	25 dBm (2.4 GHz) 24 dBm (5 GHz)
Number of SSIDs	64	64	64	64	64	64
802.11n 20/40Mhz HT	•	•	•	•	•	•
802.11ac 80 MHz channel			•	•	•	•
Security WEP, WPA-PSK, WPA-TKIP, WPA2-AES, 802.11i, 802.1X (EAP-TLS, EAP-TTLS, PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-AKA, and EAP-MD5)	•		•		•	
802.1X and captive portal authentication against local da- tabase on the controller, RADIUS, and Active Directory	•	•	•	•	•	•
RADIUS-assisted per-user and per-ESSID access control via MAC filtering	•	•	•	•	•	•
Operation Mode						
Centralized deployment mode	•	•	•	•	•	•
Distributed deployment mode	•	•	•	•	•	•
Remote VPN tunnel mode			•	•	•	•
Certifications Wi. Fi Allianae Contified*			_		Demote 0001: -	_
Wi-Fi Alliance Certified* DFS Certified**	1010i: Region A, K, CN, J, E 1010e: Region A, K, J, E	1020i: Region A, K, CN, J, E 1020e: Region A, K, J, E	Region A, K, J, E	Region A, K, J, E	Remote 832i: • Region A, K, CN, J, E	Region A, J, E
				L		L

Fortinet Infrastructure Wireless LAN Controller / FortiWLC Wireless Controllers

	MC1550	MC3200	MC4200	MC6000		
	**	:	:			
Suggested Use Case	Small enterprises, remote offices	Medium enterprises, branch offices	Large enterprises, regional offices	Very large enterprises, Headquarters, campuses		
Hardware						
Form Factor	1 RU	1 RU	1 RU	7 RU		
Ethernet Interfaces	2x GE RJ45	4x GE RJ45	4x GE RJ45, Optional 2-port 1GE/10GE SFP+ module	6x GE/10GE SFP+ interfaces per blade (max 10 blades)		
Capacity						
Max Access Points	50	200	500	5,000		
	50 FWLC-50D	200 FWLC-200D	500 FWLC-500D	5,000	_	
				5,000		
	FWLC-50D	FWLC-200D		5,000		
Max Access Points Suggested Use Case	FWLC-50D Small enterprises, remote	FWLC-200D Medium enterprises, branch	FWLC-500D Large enterprises, regional	5,000		
Max Access Points Suggested Use Case	FWLC-50D Small enterprises, remote	FWLC-200D Medium enterprises, branch	FWLC-500D Large enterprises, regional offices 1 RU	5,000		
Max Access Points Suggested Use Case Hardware	FWLC-50D Small enterprises, remote offices	FWLC-200D Medium enterprises, branch offices	FWLC-500D Large enterprises, regional offices	5,000		
Max Access Points Suggested Use Case Hardware Form Factor	FWLC-50D Small enterprises, remote offices 1 RU	FWLC-200D Medium enterprises, branch offices 1 RU	FWLC-500D Large enterprises, regional offices 1 RU 4x GE RJ45, 4x GE SFP, 2x	5,000		

Fortinet Services Appliance / FortiWLM Wireless Manager

	SA250	SA2000
		ALCONOMIC OF THE PARTY OF THE P
Suggested Use Case	Small enterprises	Medium to large enterprises
	ornali enterprises	ivieulum to large enterprises
Hardware	4.00	4.00
Form Factor	1 RU	1 RU
Ethernet Interfaces	2x GE RJ45	4x GE RJ45
Capacity	40	050
Number of FortiWLC Controllers	10	250
	FWLM-100D	FWLM-1000D
	51 5 - : 8.8.8	
		()
Suggested Use Case	Small enterprises	Medium to large enterprises
Suggested Use Case Hardware		Medium to large enterprises
* *		1 RU
Hardware	Small enterprises	1 RU 4x GE RJ45, 4x GE SFP, 2x
Hardware Form Factor Ethernet Interfaces	Small enterprises	1 RU
Hardware Form Factor Ethernet Interfaces Capacity	Small enterprises 1 RU 2x GE RJ45	1 RU 4x GE RJ45, 4x GE SFP, 2x 10GE SFP+
Hardware Form Factor Ethernet Interfaces Capacity Number of FortiWLC Controllers	Small enterprises 1 RU 2x GE RJ45	1 RU 4x GE RJ45, 4x GE SFP, 2x 10GE SFP+ 250
Hardware Form Factor Ethernet Interfaces Capacity	Small enterprises 1 RU 2x GE RJ45	1 RU 4x GE RJ45, 4x GE SFP, 2x 10GE SFP+

This document is provided as a convenient comparison of Fortinet products and services. The datasheet for any product or service can be found on www.fortinet.com should be consulted for the most updated specifications.

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