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FortiExtenderTM

Available in:



Appliance

Extend Connectivity and Improve Network Availability

The enterprise is expanding and growing more distributed, requiring new methods for achieving scalable and resilient LTE and LAN connectivity. For example, Wireless WAN technology not only being used as a backup for wired WAN connections but also as the primary WAN connection in locations such as retail popup stores, Point of Sale (PoS) systems, and kiosks.



In addition, new converged security and networking as a service offerings, such as SASE, are in high demand but require better ways of connecting distributed light branch offices to support these services. Whatever the network access challenge, be it redundant LTE or LAN connectivity, FortiExtender offers a solution.



Security Fabric Integration

Integration with FortiGate provides a single pane of glass management of the wired and wireless WAN connections and security which reduces Total Cost of Ownership for your WAN and improves manageability of remote connections in your network.



Designed for Optimal Signal Strength

LTE models can be placed to maximize LTE signal strength (via Ethernet up to 100m from the FortiGate appliance or network switch) without using lossy antenna cables or limited strength USB modems.



Simplified Management Options

Manage your FortiExtender from the FortiGate or the cloud. FortiExtender Cloud offers hosted management of an unlimited number of FortiExtenders anywhere in the world.



Highlights

- Supports high levels of redundancy
- Extends FortiGate reachability and breadth of deployment options by providing secure remote LAN access or LTE connectivity
- The E Series provides a primary WAN link for retail POS, remote ATMs, and remote kiosk type systems
- The E Series reduces WAN TCO through a single pane of glass management integration with the FortiGate Network Security Platform
- Simplifies deployment and monitoring with cloud-based management availability, ideal for large-scale, geographically dispersed locations
- Four LAN ports enable connectivity and networking for remote locations
- The E Series is PoE powered

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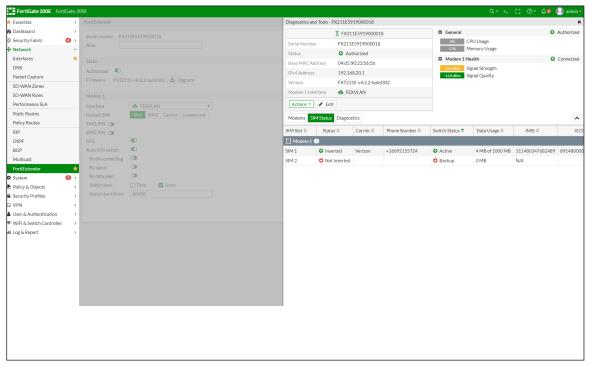
FEATURES

Superior Management, Security, and Control

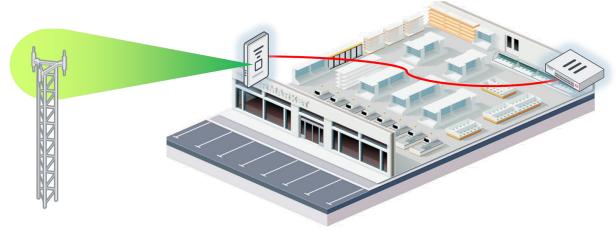
FortiExtenders are a true plug-and-play device. Once connected to the FortiGate, they appear as a regular network interface in FortiOS, providing a single pane of glass management. This enables administrators to manage the connection as well as implement complete UTM security and control, just like any other FortiGate interface. In addition, FortiOS will display data quota usage on the Wireless WAN or LAN interface, providing complete visibility of the connection to ensure costly carrier data limits are not exceeded. Additional management options are also available with FortiExtender Cloud. The superior management, security, and control of the FortiExtender ultimately reduces the Total Cost of Ownership for your WAN and LAN network.

Flexible Deployment for Optimal Signal Strength

FortiExtender LTE Wireless WAN Extender enables stable connection to support diverse applications with a high-level of redundancy using a single LTE modem platform with redundant SIM cards. FortiExtender appliances have been engineered to be installed in the best possible location to achieve the maximum LTE wireless signal strength. With exception to the non-LTE FortiExtender 200F, all LTE units are powered using Power over Ethernet, enabling the device to be located for optimal signal strength, even up to 100m away from the FortiGate or Network Switch.



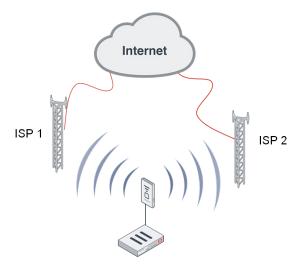
FortiExtender managed with FortiGate



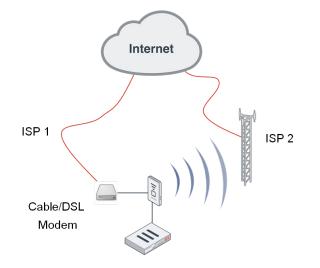
FEATURES

Flexible LTE Connectivity

The FortiExtender family of LTE appliances all support dual SIM cards per radio enabling the option of using two different ISPs for LTE connectivity. While only one SIM card can be active on any radio, the dual SIM option enables you to switch between ISPs to optimize your connectivity and minimize your costs. For example, you can configure the FortiExtender to utilize the link from ISP A until a certain data usage threshold is reached. At that point, FortiExtender can automatically shift over to ISP B and use that LTE connection. Additional conditions can be set to shift the connection between the two SIM cards, all to enable the optimal balance of connectivity and cost.



Switch between ISPs based on cost or data usage



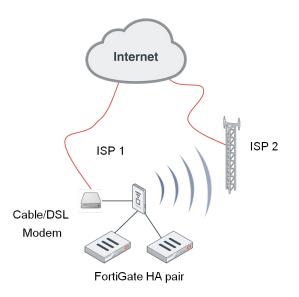
Mix LTE and Cable/DSL connections for load-balancing and/or failover

Flexible WAN Connectivity

FortiExtender offers new WAN connectivity options with an Ethernet WAN port, in addition to the LTE WAN link. With this WAN port, you can connect to a DSL, cable, or another modem for additional WAN connectivity options. Loadbalancing and failover options enable your FortiExtender to manage your WAN connections across several options to ensure connectivity at the best cost point.

Hybrid WAN-LAN Connectivity

The FortiExtender 200F is the first LAN-only product to be added to the FortiExtender line, supporting a cost-effective means of rolling out Secure Access Service Edge (SASE) to thin edge networks via Ethernet if LTE is not desired. Additionally, the 200 series of FortiExtender offers four LAN Ethernet ports. Ideal for High Availability (HA) pairs of FortiGates, each FortiGate can be directly connected to the FortiExtender.



Easily supports two FortiGates in HA mode without additional hardware

HARDWARE SPECIFICATIONS

Modem Support Internal (1x Modem) Number of Antennas 3 SMA External Power over Ethernet (PoE) Powered IEEE 802.34 (15.4 W) Ethernet Ports 5 GE RLAS Ports (WAN + LAN) Bluetooth Maximum Transmit Power 9.88 dBm Frequency 2.4 GHz GPS Antenna Port Yes GPS Antenna Port Yes Dimensions Height X Width X Length (inches) Height X Width X Length (inches) 157 × 6.3 × 6.3 (not including antenna length) Height X Width X Length (inches) 157 × 6.3 × 6.3 (not including antenna length) Height X Width X Length (inches) 157 × 6.3 × 6.3 (not including antenna length) Height X Width X Length (inches) 12 (12) (0.5 5 kg) Environment 2000000000000000000000000000000000000		FEX-201E	FEX-211E	
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3G/4G LTE SPECIFICATIONS

	FEX-201E	FEX-211E	
Regional Compatibility			
	North and South America and EMEA Carriers, and some APAC Carriers	Global Carriers	
Internal Modem Specifications			
Modem Model	Sierra Wireless EM7455	Sierra Wireless EM7565	
LTE	CAT-6	CAT-12	
4G: LTE	Bands: 1, 2, 3, 4, 5, 7, 8, 12, 13, 20, 25, 26, 29, 30, 41	Bands: 1,2,3,4,5,7,8,9,12,13,18,19,20,26,28,29,30,32,41,42,43,46,48,66 (Bands 42, 43, 46 are supported on Rev: P24254-02 and later)	
3G: UMTS/HSPA+	Bands: 1, 2, 3, 4, 5, 8	Bands:1,2,4,5,6,8,9,19	
3G: WCDMA	Bands: 1, 2, 3, 4, 5, 8	Bands:1,2,4,5,6,8,9,19	
2G: CDMA 1xRTT/EV-DO Rev A	Ν	Α	
2G: GSM/GPRS/EDGE	N/A		
Additional Ports	GPS antenna port		
Connector Type	SMA (MAIN, AUX, GPS)		
Module Certifications	FCC, IC, CE		
Diversity	Yes		
MIMO	Yes		
GNSS Bias	Yes		
XLTE (band bonding)	Yes		
	Receiver Equalization — Improves performar Receiver Diversity — Improves perfor		
Advanced Software Features	Receiver Diversity — Improves performance at cell edges and in buildings Connection status		
	Auto-connect		
	Auto-select network		
 	Data byte count		
	Network profile		
	Self-diagnostics		
	Power management — Standby & hibernate selective suspend		
	DIAG & AT Commands		
	IMEI located on outer box and device for simple activation by Verizon		
	Private IP SIM support		
	L2 and L3 Tunnel modes via VLAN, VxLAN, and CAPWAP for fast and flexible deployments		
	Single pane of glass management via FortiGate and FortiManager		
SIM Features	Dual-SIM support with intelligent fail-over algorithms		
	Dual-SIM support with inte	lligent fail-over algorithms	
		elligent fail-over algorithms SIM type 3FF	
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Carrier Certifications	SIM size: Micro SIM secu	o-SIM type 3FF	
Carrier Certifications	SIM size: Micro SIM secu	-SIM type 3FF rity cover zon	

Certification notes:

The built-in modem offers quad-band connectivity to HSPA+ networks worldwide and expected to work in 3G mode worldwide, subject to carrier support. There are exceptions however, as some carriers control the access to their network to specific carrier certified devices. These carriers allow only certified modem IMEI numbers on their network and have the ability to disable the LTE connection after a period of time. The following carriers are known to require additional testing to obtain certification. Please reach out to the Fortinet sales team and to evaluate your specific regional requirements: Brazil (VIVO), USA (Sprint), New Zealand, Arabian Peninsula (all carriers), UK (All carriers).

ORDER INFORMATION

Product	SKU	Description
FortiExtender 201E	FEX-201E	Indoor Broadband Wireless WAN Extender with 1x Dual SIM 3G/4G LTE CAT6 modem for North/South America and Europe Carriers, and some APAC Carriers. 5x GE WAN/LAN configurable RJ45 ports including 1x 802.3af/at POE PD port and GPS port.
FortiExtender 211E	FEX-211E	Indoor Broadband Wireless WAN Extender with 1 x Dual SIM 3G/4G LTE CAT12 global modem, 5 x GE WAN/ LAN configurable RJ45 ports including 1× 802.3af/at POE PD port and GPS port.
FortiCare Support	FC-10-F201E-247-02-DD	24×7 FortiCare Contract for FEX-201E.
	FC-10-F211E-247-02-DD	24×7 FortiCare Contract for FEX-211E.
Power Adapter	SP-FAP400-PA	AC power adapter for use with FEX-201E and FEX-211E models.



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