

DATA SHEET

# **FortiExtender™**

FortiExtender 201E, 211E, and 200F

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 pop-up 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

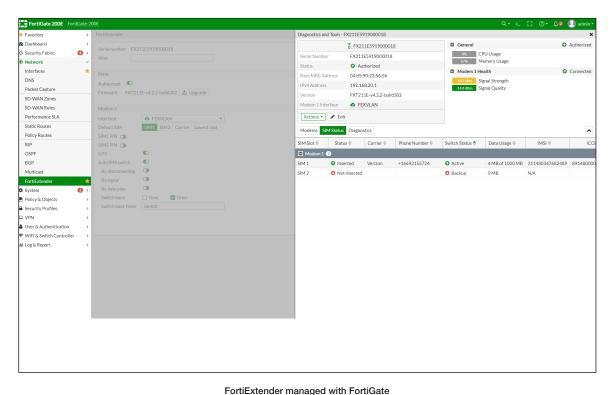
#### **Features**

## 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 modern 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.

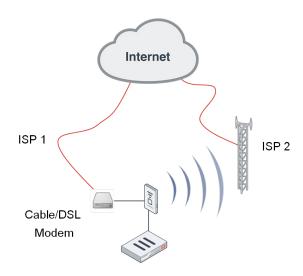


FortiExtender can be placed near a window for optimal signal strength.

#### **Features**

### Flexible LTE Connectivity

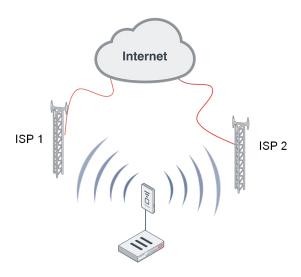
The FortiExtender family of LTE appliances all support dual SIM cards per radio enabling the option of using two different ISPs for LTE connectivity. While only one SIM card can be active on any radio, the dual SIM option enables you to switch between ISPs to optimize your connectivity and minimize your 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.



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

# **Hybrid WAN-LAN Connectivity**

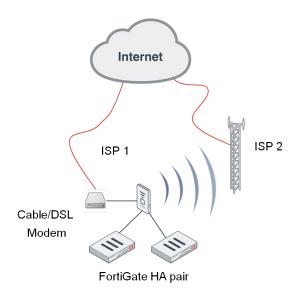
The FortiExtender 200F is the first LAN-only product to be added to the FortiExtender line, supporting a cost-effective means of rolling out Secure Access Service Edge (SASE) to thin edge networks via Ethernet if LTE is not desired. Additionally, the 200 series of FortiExtender offers four LAN Ethernet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



Switch between ISPs based on cost or data usage

## 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. Load-balancing and failover options enable your FortiExtender to manage your WAN connections across several options to ensure connectivity at the best cost point.



Easily supports two FortiGates in HA mode without additional hardware



# **Hardware Specifications**

	FEX-201E FEX-211E	FEX-200F
Hardware and System		
Modem Support	Internal (1x Modem)	
Number of Antennas	3 SMA External	
Power over Ethernet (PoE) Powered	IEEE 802.3af (15.4 W)	
Ethernet Ports	5 GE RJ45 Ports (WAN + LAN)	5 GbE RJ45 ports (WAN or LAN configurable)
Bluetooth	Maximum Transmit Power 9.98 dBm	
	Frequency 2.4 GHz	
GPS Antenna Port	Yes	
Mounting Options	Wall Mount / Desktop	Wall Mount / Desktop
Туре	Indoor	Indoor
Dimensions		
Height x Width x Length (inches)	1.57 x 6.3 x 6.3 (not including antenna length)	1.02 x 7.09 x 3.9
Height x Width x Length (mm)	40 x 160 x 160 (not including antenna length)	27 x 180 x 99.9
Weight	1.2 lbs (0.55 kg)	1.01 lbs (0.46 kg)
Environment		
Power Required	12V/2A External Adapter/PoE(af)	External DC Adapter 12V/1A
Power Consumption (Average)	9.38 W	
Power Consumption (Maximum)	10.99 W	6.19 W (21.12 BTU/hr) @ -5C 6.81 W(23.24 BTU/hr) @ 50C
Operating Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	5–95%	5–95%
Certifications		
FCC	FCC Part 15B, 15C, 2.1091	FCC Part 15B, 15C, 2.1091
IC	ICES-003, RSS-247, RSS-102	ICES-003, RSS-247, RSS-102
CE	EMC 2014/30/EU (EN 55032, EN 55024, EN 55035, EN 61000-3-2/-3; EN 301 489-1/-17/-19, Draft EN 301 489-52)	EMC 2014/30/EU (EN 55032, EN 55024, EN 55035 EN 61000-3-2/-3; EN 301 489-1/-17)
	RED 2014/53/EU (EN 300 328, EN 303 413, EN 301 908-1/-2/-13, EN 62311, EN 50382, EN 50665, EN 50663, EN 62479)	RED 2014/53/EU (EN 300 328, EN 62311)
	LVD 2014/35/EU (EN 60950-1, EN 62368-1)	LVD 2014/35/EU (EN 60950-1, EN 62368-1)
UL	UL/CSA 60950-1, UL/CSA 62368-1	UL/CSA 60950-1, UL/CSA 62368-1
CB	IEC/EN 60950-1, IEC/EN 62368-1	IEC/EN 60950-1, IEC/EN 62368-1



# **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: 1,2,3,4,5,7,8,9,12,13,18,19,20,26,28,29,30,32,41,42,42,46,48,66 (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	WA		
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		
KLTE (band bonding)	Yes		
Advanced Radio Technology	2x2 MIMO — Enables industry leading data speeds		
	Receiver Equalization — Improves performance in noisy and highly mobile environments		
	Receiver Diversity — Improves performance at cell edges and in buildings		
Advanced Software Features	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		
	SIM size: Micro-SIM type 3FF		
	SIM security cover		
Carrier Certifications	Verizon		
	АП		
	PTCRB		
ertification notes:			

#### 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 modern 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 (MVO), 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 1x 802.3af/at POE PD port and GPS port.
FortiExtender 200F	FEX-200F	FEX-200F is an extension of the FortiGate LAN interface, connecting to FortiGate with a secured L2 tunnel for Layer2—Layer7 security for branch offices. 5x GbE RJ45 ports, each can be configured as WAN or LAN by software.
FortiCare Support	FC-10-F201E-247-02-DD	24x7 FortiCare Contract for FEX-201E.
	FC-10-F211E-247-02-DD	24x7 FortiCare Contract for FEX-211E.
	FC-10-F200F-247-02-DD	24x7 FortiCare Contract for FEX-200F.
Power Adapter	SP-FAP400-PA	AC power adapter for use with FEX-201E, FEX-211E, and FEX-200F models.



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