FortiExtender™
3G/4G Wireless WAN Extenders

FortiExtender

FortiExtender 20B, 100B and 100A-VZW

3G/4G Wireless WAN Extenders

Improve Business Continuity with a 3G/4G Backup WAN Connection

A reliable WAN connection is essential for the modern enterprise. With businesses increasingly relying on cloud computing and remote applications, WAN connectivity must be always-on and downtime caused by an unreliable connection to the WAN is costly. Ideal for the distributed enterprise, retail location and SMB, FortiExtender 3G/4G Wireless WAN Extenders work in conjunction with the FortiGate Network Security Platform to provide a 3G/4G WAN connection as a backup to the primary wired WAN link. The advanced FortiOS software on the FortiGate facilitates rapid failover from the wired connection to the FortiExtender 3G/4G Wireless WAN connection in the event of a wired failure, ensuring the enterprise location stays online and operational.

3G/4G Wireless WAN as a Primary WAN Connection

3G/4G are the latest high-speed wireless WAN technologies. Modern enterprises are ncreasingly taking advantage of these technologies not only as a backup for their wired WAN connections, but also as the primary WAN connection in locations such as; small branch offices, retail Point of Sale and kiosks. A FortiExtender 3G/4G Wireless WAN Extender enables a reliable and stable connection to support these applications.

Key Features & Benefits

Integrates into the FortiGate Network Security Platform	Single pane of glass management of the wired and wireless WAN connections and security reduces Total Cost of Ownership for your WAN.
Designed for Outdoor Use	Can be located to maximize 3G/4G signal strength, without using lossy antenna cables or limited strength USB modem.
Power over Ethernet	Can be located up to 100m from the FortiGate appliance or network switch, to optimize wireless signal strength.
Enterprise Performance	3G/4G Wireless WAN is the latest high-speed wireless WAN technology, significantly outperforming legacy redundant WAN connections such as dial-up.

Highlights

- Enables placement of 3G/4G Wireless modem outdoors or close to a window, improving signal strength

- Provides a secondary failover WAN link to improve business continuity

- Provides a primary WAN link for retail POS, remote ATM machines and remote kiosk-type systems

- Reduces WAN TCO through single pane of glass management integration with the FortiGate Network Security Platform

- Data usage management and alerts to monitor data usage and avoid overcharges

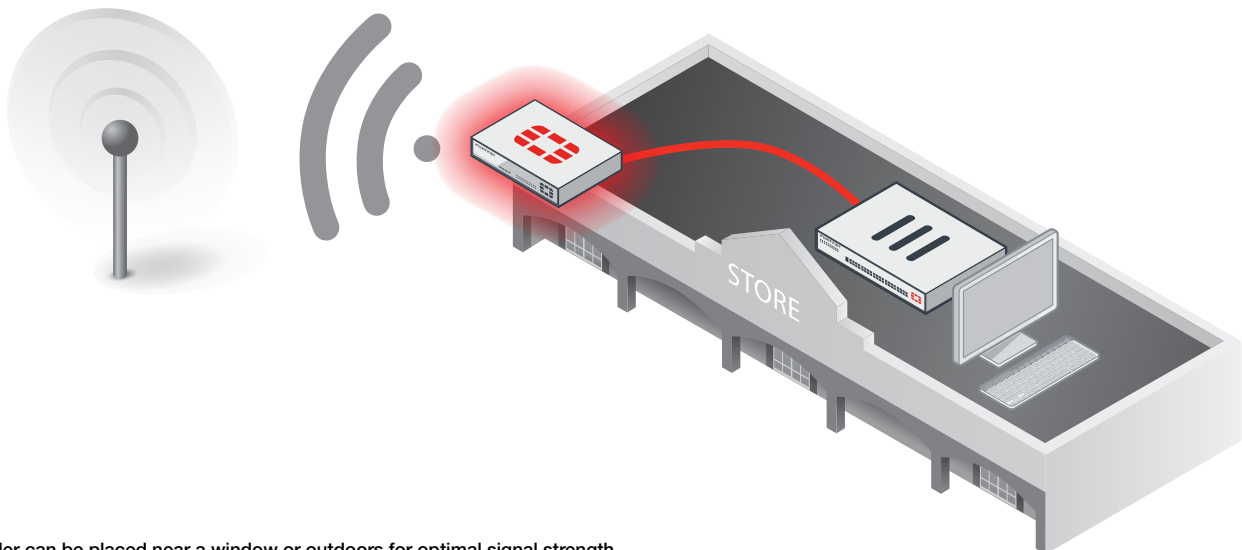- PoE powered

Superior Management, Security and Control

FortiExtenders are true plug-and-play devices. Once connected to the FortiGate, they appear as a regular network interface in FortiOS, providing 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 interface, providing complete visibility of the connection to ensure costly carrier data limits are not exceeded. The superior management, security and control of the FortiExtender ultimately reduces the Total Cost of Ownership for your WAN.

Flexible Deployment for Optimal Signal Strength

FortiExtender devices have been engineered to be installed in the best possible location to achieve maximum 3G/4G wireless signal strength. The unit is powered using Power over Ethernet with both indoor and outdoor models available, enabling the device to be located for optimal signal strength, even up to 100m away from the FortiGate or Network Switch. The choice between indoor or outdoor models provides deployment flexibility based on the specific signal strength requirements for each location.

FortiOS Web-based GUI — complete FortiExtender visibility and control.

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

SPECIFICATIONS

	FORTIEXTENDER 20B	FORTIEXTENDER 100B	FORTIEXTENDER 100A-VZW
Hardware and System			
Modem Support	USB	USB	Internal
Power over Ethernet (PoE) Powered	IEEE 802.3af (9.5)	IEEE 802.3af (7.3W)	IEEE 802.3af (8W)
Mounting Options	Wall mount	Pole and wall mount	Pole and wall mount
Ingress Protection Rating	N/A	IP55	IP55
Dimensions			
Height x Width x Length (inches)	1 x 3.8 x 4.9	5.7 x 10.6 x 1.9	4.92 x 8.98 x 2.64
Height x Width x Length (mm)	25 x 97 x 124	145 x 268 x 48	125 x 228 x 67
Weight	0.7 lb (0.3 kg)	1 lb (454 g)	0.99 lb (0.45 kg)
Environment			
Operating Temperature	23–122°F (-5–50°C)	32–131°F (0–55°C)	-22–140°F (-30–60°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	-31–176°F (-35–80°C)
Humidity	5–95%	5–95%	0–95%
Certifications			
CB	IEC 60950-1:2005	IEC 60950-1:2005	IEC 60950-1:2005
UL	UL 60950-1, CSA C22.2 No. 60950-1-07	UL 60950-1, CSA C22.2 No. 60950-1-07	UL 60950-1, CSA C22.2 No. 60950-1-07
FCC	FCC Part 15, Class B and Subpart C and ICES-003	FCC Part 15, Class B and Subpart C and ICES-003	FCC Part 15, Class B and Subpart C and ICES-003
CE	EU Directive 2004 / 108 / EC EMC EU Directive 2006 /95 / EC LVD EN 55022 / EN 55024 / EN 61000	EU Directive 2004 / 108 / EC EMC EU Directive 2006 /95 / EC LVD EN 55022 / EN 55024 / EN 61000	
Directives	Low Voltage Directive ● RoHS	Low Voltage Directive ● RoHS	Low Voltage Directive ● RoHS

SUPPORTED USB MODEMS

FORTIEXTENDER 20B AND 100B		
ISP	**Modem**	**Brand**
AT&T	AC340U	Netgear (Sierra)
AT&T	AC313U	Netgear (Sierra)
Bell	U679	Novatel
Rogers	AC313U	Netgear (Sierra)
Sprint	AC341U	Netgear (Sierra)
Telstra	AC320U	Netgear (Sierra)
Verizon	UML 295	Pantec
Verizon	USB551L	Novatel

Please see release notes for a complete list of supported modems.

INTERNAL MODEM CAPABILITIES

FORTIEXTENDER 100A-VZW	
Internal Modem Bands	LTE AWS, 700 MHz (B17) (with MIMO) HSPA+/UMTS 850/AWS/1900/2100 MHz GPRS 850/900/1800/1900 MHz Certified for use on Verizon Network
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
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

ORDER INFORMATION

Product	SKU	Description
FortiExtender 20B	FEX-20B	Indoor Broadband Wireless WAN Extender for use with USB modems. 1x GE RJ45 and 1x USB port for 3G/4G modem (not supplied).
	FC-10-X0020-311-02-DD	8x5 FortiCare Contract
	FC-10-X0020-247-02-DD	24x7 FortiCare Contract
FortiExtender 100B	FEX-100B	Outdoor Broadband Wireless WAN Extender for use with USB modems. 1x GE RJ45 and 1x USB port for 3G/4G modem (not supplied). PoE powered with included injector.
	FC-10-X0100-311-02-DD	8x5 FortiCare Contract
	FC-10-X0100-247-02-DD	24x7 FortiCare Contract
FortiExtender 100A-VZW	FEX-100A-VZW	Outdoor Broadband Wireless WAN Extender with built-in 3G/4G modem for Verizon Wireless Networks. 1x FE RJ45 port.
	FC-10-X0101-311-02-DD	8x5 FortiCare Contract
	FC-10-X0101-247-02-DD	24x7 FortiCare Contract

Note: FortiExtender requires a FortiGate running FortiOS 5.2 or above to serve as its controller.

FÜRTINET®

GLOBAL HEADQUARTERS
Fortinet Inc.
899 Kifer Road
Sunnyvale, CA 94086
United States
Tel: +1.408.235.7700
www.fortinet.com/sales

EMEA SALES OFFICE
120 rue Albert Caquot
06560, Sophia Antipolis,
France
Tel: +33.4.8987.0510

APAC SALES OFFICE
300 Beach Road 20-01
The Concourse
Singapore 199555
Tel: +65.6513.3730

LATIN AMERICA SALES OFFICE
Prol. Paseo de la Reforma 115 Int. 702
Col. Lomas de Santa Fe,
C.P. 01219
Del. Alvaro Obregón
México D.F.
Tel: 011-52-(55) 5524-8480