FortiBridge® 2000-Series

FortiBridge 2001, 2001F, 2002, 2002F and 2002X

You are faced with the challenge of securing your network while also ensuring that it is always available. To preserve availability in the event of a power failure or a device malfunction, bypassing the device altogether with a fail-to-wire solution can ensure network continuity at times when security cannot be provided. The FortiBridge 2000-series of appliances provides bypass functionality to FortiGate consolidated security systems, and all appliances offer bypass functionality for one or two network segments.

In the case of a hardware or software failure or any other device outage, the FortiBridge will directly bridge the WAN-to-LAN segments to ensure unimpeded network connectivity and availability around the offline device. When the FortiBridge appliance detects that functionality is restored, it can automatically revert traffic back through the FortiGate or other network device.

FortiBridge appliances can also be deployed in bypass mode by default to ensure maximum network throughput during normal conditions, but reroute traffic during periods of heightened threat activity to a FortiGate or other network security device.

Various FortiBridge models provide flexibility to support a range of network configurations.

Highlights

- Protects against FortiGate failures
- Fail-to-wire ensures network connectivity
- Monitor and control bypass status remotely

Key Features and Benefits

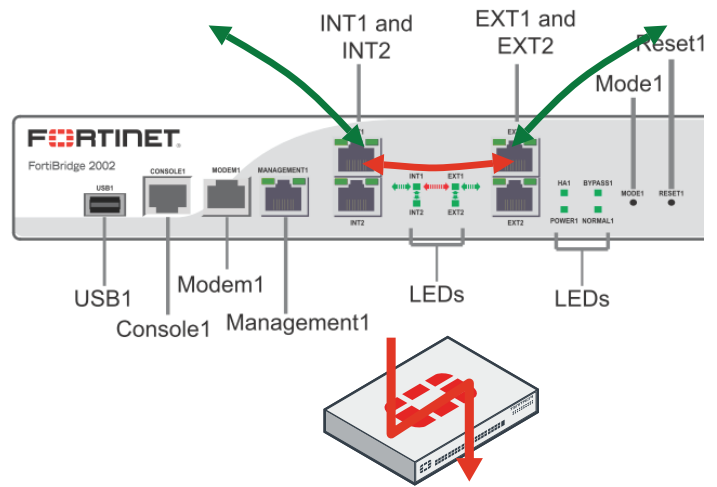|		
	Fail-to-Wire Bypass	Maximizes network uptime by automatically rerouting traffic in the event of a power outage or any other type of event that would cause an inline security device to degrade the availability of the network segment.
	Standalone 1 RU Appliance	Enables you to add bypass functionality to any existing inline security system, including FortiGate® consolidated security systems.
	Remote Configuration and Monitoring	Enables you to monitor and control the bypass status of network segments remotely, with the ability to view mode of operation, manually switch the appliance into bypass or normal operation mode, and configure thresholds for automatic bypass fail-to-wire.

HARDWARE

FortiBridge in Normal Mode

In normal operation of the FortiBridge, data flows from the Internal ports of the FortiBridge to the Internal port of the FortiGate unit. The traffic flows from the FortiGate unit through the External ports of the FortiBridge unit to the external network.

FortiGate Firewall
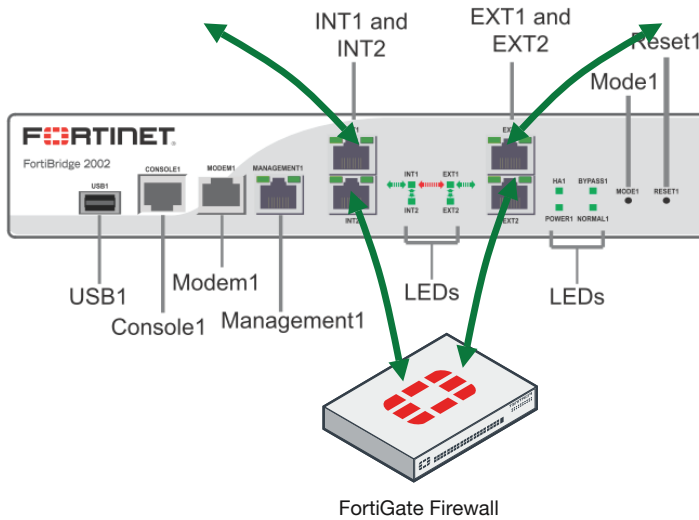
FortiBridge in Bypass Mode

FortiBridge enters Bypass Mode when traffic failure is detected or power loss occurs (zero power fail open). The INT2 and EXT2 ports are directly connected mechanically. Traffic between Internal and External interfaces continues to flow.

SPECIFICATIONS

	FBG-2001	FBG-2001F	FBG-2002	FBG-2002F	FBG-2002X
Hardware Specifications					
10/100/1000 (Copper, RJ-45)	4	0	8	0	0
SFP Interfaces	0	2	0	4	0
SFP+ Interfaces (10 GbE)	0	0	0	0	4
LC Interfaces (1 GbE)	0	2	0	4	0
LC Interfaces (10 GbE)	0	0	0	0	4
Management Interfaces	1	1	2	2	2
Console Interfaces (RJ-45)	1	1	2	2	2
USB Interfaces	1	1	2	2	2
Modem	1	1	2	2	2
Link Protection	1x Gbps segment	1x Gbps segment	2x Gbps segment	2x Gbps segment	2x 10 GE segment
Environment					
Power Consumption (Average)	15 W	15 W	28 W	22 W	120 W
Heat Dissipation	85 BTU/h	85 BTU/h	96 BTU/h	75 BTU/h	409 BTU/h
Power Supply	100–240V AC, 50–60 Hz, 0.3 Amp	100–240V AC, 50–60 Hz, 0.3 Amp	100–240V AC, 50–60 Hz, 0.8 Amp maximum	100–240V AC, 50–60 Hz, 0.8 Amp maximum	100–240V AC, 50–60 Hz, 1.54 Amp maximum
Operating Temperature	32–104°F (0–40°C)				
Storage Temperature	-13–158°F (-25–70°C)				
Humidity	20–90% non-condensing	20–90% non-condensing	20–80% non-condensing	20–80% non-condensing	20–80% non-condensing
Compliance					
Regulatory Compliance	FCC Part 15 Class A, CE				
Dimensions					
Height x Width x Length (inches)	1.75 x 11.85 x 17.4	1.75 x 11.85 x 17.4	1.75 x 11.85 x 17.4	1.75 x 11.85 x 17.4	1.75 x 17.25 x 17.4
Height x Width x Length (mm)	44 x 30.1 x 442	44 x 30.1 x 442	44 x 30.1 x 442	44 x 30.1 x 442	44 x 43.8 x 442
Weight	7.1 lbs (3.2 kg)	7.1 lbs (3.2 kg)	8.4 lbs (3.8 kg)	8.4 lbs (3.8 kg)	15 lbs (6.8 kg)
Rack Mountable	Yes	Yes	Yes	Yes	Yes

ORDER INFORMATION

Product	SKU	Description
FortiBridge 2001	FBG-2001	FortiBridge 2001, power failure bypass functionality for one network segment. 4x RJ45 10/100/1000, 1x RJ45 Management Port, Power Supply, 1x CPU.
FortiBridge 2001F	FBG-2001F	FortiBridge 2001F, power failure bypass functionality for one network segment. 2x 1G SPF, 2x 1G LC, 1x RJ45 Management Port, Power Supply, CP, includes 2x SR SFP transceivers.
FortiBridge 2002	FBG-2002	FortiBridge 2002, power failure bypass functionality for two network segments. 8x RJ45 10/100/1000, 2x RJ45 Management Ports, Dual Power Supply, Dual CPU.
FortiBridge 2002F	FBG-2002F	FortiBridge 2002F, power failure bypass functionality for two network segments. 4x 1G SPF, 4x 1G LC, 2x RJ45 Management Ports, Dual Power Supply, Dual CP, includes 4x SR SFP transceivers.
FortiBridge 2002X	FBG-2002X	FortiBridge 2002X, power failure bypass functionality for two network segments. 4x 10G SPF+, 4x 10G LC , 2x RJ45 Management Ports, Dual Power Supply, Dual CP, includes 4x SR SFP+ transceivers.

FortiBridge 2001

FortiBridge 2001F

FortiBridge 2002

FortiBridge 2002F

FortiBridge 2002X