



## FortiBridge® 2000-Series

Ensuring availability of network resources



## FortiBridge 2000-Series

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

### Ensuring availability of network resources

You are faced with the challenge of securing your network while also ensuring that it is always available. This could mean that you are forced to choose network availability over ensuring that all traffic is inspected for malicious activity. You are already using high availability features of the security infrastructure, where a system fails over to either an active or standby unit. While this can reduce the risk of a network outage and still providing security services, to further reduce the risk of a network outage, additional steps have to be taken. 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 three appliances offer bypass functionality for two network segments:

- The FortiBridge 2001 appliance provides four 10/100/1000 interfaces
- The FortiBridge 2001F provides two SFP 1 GE interfaces, two fiber (LC, 850nm) 1 GE interfaces
- The FortiBridge 2002 appliance provides eight 10/100/1000 interfaces
- The FortiBridge 2002F appliance provides four SFP 1 GE interfaces, four fiber (LC, 850nm) 1 GE interfaces.
- The FortiBridge 2002X appliance provides four SFP+ 10 GE interfaces, four fiber (LC, 850nm) 10 GE interfaces

Operating in transparent mode during normal operation, these appliances automatically bridge network traffic in the event of a system failure or power outage to ensure mission critical network continuity.

### FortiBridge Benefits

The FortiBridge product family protects network availability

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



# FEATURES

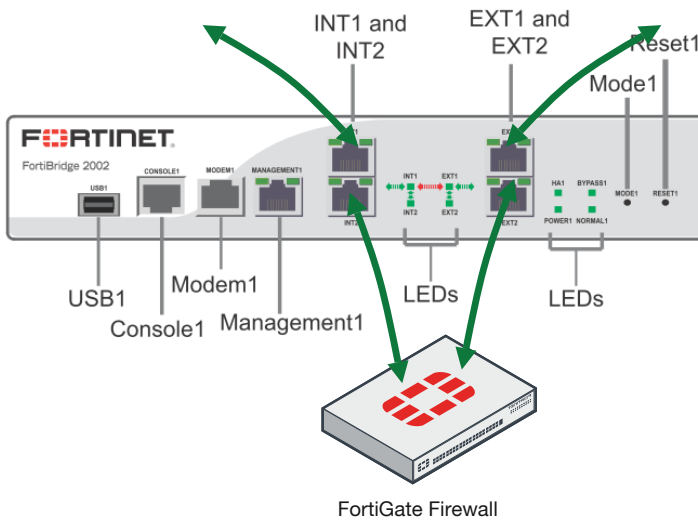
## Key Features & Benefits

<b>Fail-to-Wire Bypass</b>	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.
<b>Standalone 1 RU Appliance</b>	Enables you to add bypass functionality to any existing inline security system, including FortiGate® consolidated security systems.
<b>Remote Configuration and Monitoring</b>	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

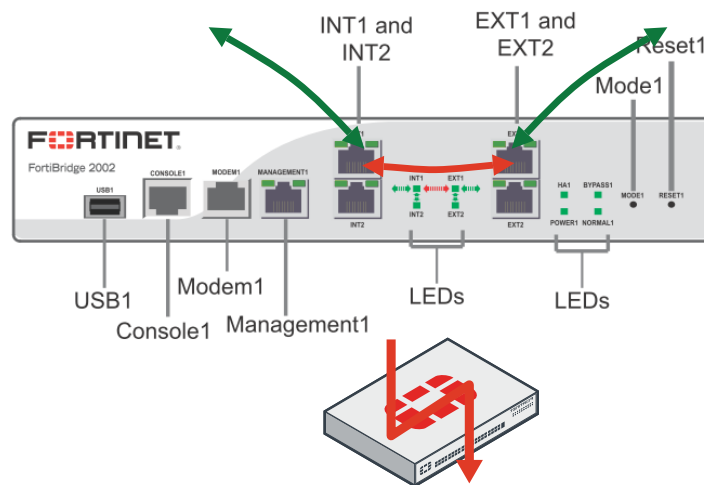
## FortiBridge in Normal Mode

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.



## 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
<b>Hardware Specifications</b>					
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
<b>Environment</b>					
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
<b>Compliance</b>					
Regulatory Compliance	FCC Part 15 Class A, CE				
<b>Dimensions</b>					
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



FortiBridge 2001



FortiBridge 2001F



FortiBridge 2002



FortiBridge 2002F



FortiBridge 2002X

## CLI Reference:

<http://docs.fortinet.com/d/fortibridge-v4-cli-ref>

## Admin Guide:

<http://docs.fortinet.com/fortibridge/admin-guides>

## Quick Start Guide:

<http://docs.fortinet.com/fortibridge/hardware>

## 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 SFP, 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 SFP, 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 SFP+, 4x 10G LC, 2x RJ45 Management Ports, Dual Power Supply, Dual CP, includes 4x SR SFP+ transceivers.



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