

FortiBridge[®] Bypass Appliances

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

FortiBridge Features and Benefits

FortiBridge-2001



Fail-to-Wire Bypass

Maximizes network uptime by automatically re-routing traffic in the event of a power outage or any other type of event that would cause an in line security device to degrade the availability of the network segment.

FortiBridge-2001F



Standalone 1-RU appliance

Enables you to add bypass functionality to any existing in line security system, including FortiGate[®] consolidated security systems.

FortiBridge-2002



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

FortiBridge-2002F

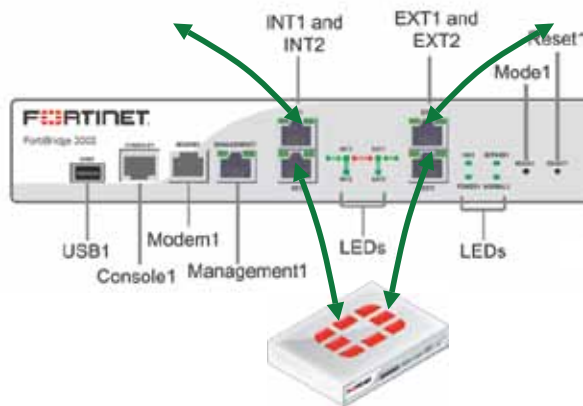


FortiBridge-2002X



FortiBridge in Normal Mode

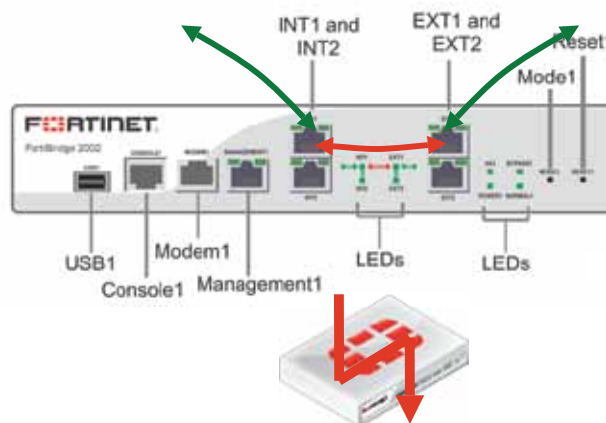
In normal operation of the FortiBridge, data flows from the Internal ports of the FortiBridge to the Internal port of the FortiGate unit. The traffic flows from the FortiGate unit through the External ports of the FortiBridge unit to the external network.



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.



Technical Specifications	FortiBridge-2001	FortiBridge-2001F	FortiBridge-2002	FortiBridge-2002F	FortiBridge-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	1 x Gbps segment	1 x Gbps segment	2 x Gbps segment	2 x Gbps segment	2 x 10 GbE segment
Environment					
Power Required	100-240 VAC, 50-60 Hz, 0.3 Amp	100-240 VAC, 50-60 Hz, 0.3 Amp	100-240 VAC, 50-60 Hz, 0.8 Amp max		100-240 VAC, 50-60 Hz, 1.54 Amp max
Power Consumption (AVG)	15W	15W	28W	22W	120W
BTU	85 BTU	85 BTU	96 BTU	75 BTU	409 BTU
Operating Temperature	32 – 104 deg F (0 – 40 deg C)				
Storage Temperature	-13 to 158 deg F (-25 to 70 deg C)				
Humidity	20 to 90% non-condensing		20 to 80% non-condensing		
Compliance	FCC Class A Part 15, / CE Mark				
Dimensions					
Height x Length x Width (in)	1.75 (H) x 17.4 (L) x 11.85 (W)	1.75 (H) x 17.4 (L) x 11.85 (W)	1.75(H) x 17.4(L) x 11.85(W)	1.75 (H) x 17.4 (L) x 11.85 (W)	1.75 (H) x 17.4 (L) x 17.25 (W)
Height x Length x Width (cm)	4.4 (H) x 44.2 (L) x 3.01(W)	4.4 (H) x 44.2 (L) x 3.01(W)	4.4 (H) x 44.2 (L) x 3.01(W)	4.4 (H) x 44.2 (L) x 3.01(W)	4.4 (H) x 44.2 (L) x 4.38(W)
Weight	7.1 lb (3.2 kg)	7.1 lb (3.2 kg)	8.4 lb (3.8 kg)	8.4 lb (3.8 kg)	15 lb (6.8 kg)
Rack Mountable	Yes	Yes	Yes	Yes	Yes

Ordering Info

Product	SKU
FortiBridge-2001, power failure bypass functionality for one network segment. 4 RJ45 10/100/1000, 1 RJ45 Management Port, Power Supply, One CPU	FBG-2001
FortiBridge-2001F, power failure bypass functionality for one network segment. 2 1G SFP, 2 1G LC, 1 RJ45 Management Port, Power Supply, CP, includes 2 SR SFP transceivers	FBG-2001F
FortiBridge-2002, power failure bypass functionality for two network segments. 8 RJ45 10/100/1000, 2 RJ45 Management Ports, Dual Power Supply, Dual CPU	FB02002
FortiBridge-2002F, power failure bypass functionality for two network segments. 4 1G SFP, 4 1G LC, 2 RJ45 Management Ports, Dual Power Supply, Dual CP, includes 4 SR SFP transceivers	FB-2002F
FortiBridge-2002X, power failure bypass functionality for two network segments. 4 10G SFP+, 4 10G LC, 2 RJ45 Management Ports, Dual Power Supply, Dual CP, includes 4 SR SFP+ transceivers.	FBG-2002X

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