



# iBypass HD

## 2 to 8 Station with Failover

The iBypass HD (High Density) provides a 1U, high port density bypass switch solution for in-line network security appliances such as intrusion prevention systems (IPSs) and firewalls. Each of the two to eight segments operates independently to ensure link protection when monitoring up to eight critical network links at any one time. Individual and multi-segment IPS appliances can be connected, maintained, or removed without affecting traffic through the links or the operation of the remaining segments. In addition, pairs of bypass switches can be linked in a high-availability configuration, where failure of one appliance results in switching the traffic to the other appliance.

The iBypass HD chassis accepts four hot-pluggable Dual Bypass Modules. Each DBM provides two independent bypass switches that can also be configured as a high-availability failover pair. Different DBM models support 10/100/1000 copper, singlemode fiber, and multimode fiber. The fiber DBMs have SFP monitoring interfaces so any type of tool can be supported. The chassis can be populated with any mix of DBM types to suit the monitoring environment. Each bypass switch can also be configured as a network Tap, further increasing deployment flexibility.

All of the bypass switches include Net Optics Heartbeat™ technology, which actively monitors the health of the attached in-line monitoring device. A configurable Heartbeat packet is injected into the monitor port link to help determine delay due to heavy traffic loads or the availability of attached monitoring tools. The bypass switch automatically switches network traffic around an unresponsive IPS appliance even if the IPS is still powered on. Once the IPS re-establishes a connection, traffic is re-routed to the monitor ports for continued operation.

For added reliability, the iBypass HD features power loss fail-open: In the event of power loss to the bypass switch, traffic continues to flow through the network links, but is no longer routed to the monitoring tools. Additionally, hot-swappable redundant power supplies are a standard feature.

Manage the iBypass HD locally or remotely. Management features include easy device configuration, SSH security, role-based access, RADIUS and TACACS+ authentication and authorization, RMON traffic statistics, and remote software upgrades.

### Passive, Secure Technology

- Fail-safe monitoring with any Gigabit in-line monitoring tools
- Increased reliability on critical network links
- High-speed forwarding with minimal traffic interruption
- Failover mode and redundant power ensure monitoring uptime
- Protects against abnormal traffic patterns

### Ease of Use

- LED indicators show power, speed, link, and activity status
- Front-mounted connectors support easy installation and operation
- High density 1U rack enclosure with slide rails
- Compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, firewalls, and intrusion detection/prevention systems



### Technical Specifications:

#### Operating:

**Operating Temperature:** 0°C to 40°C

**Storage Temperature:** -10°C to 70°C

**Relative Humidity:** 10% min, 95% max, non-condensing

#### Mechanical:

**Dimensions:** 1.75" high x 19" wide x 27" deep

**Weight:** 8.2 lbs (3.7 kg)

#### Hot-Swappable Redundant Power Supplies:

AC Input: 100-240V, 1.45A, 47-63Hz

DC Input: -48VDC nominal, -36 to -72VDC, 4.0A

#### Splitter:

##### Fiber Type:

Multimode: Corning 50 or 62.5/125µm, 850nm wavelength

Insertion Loss: Network Port: 1.25 dB, Monitoring Port: 1.25 dB

Singlemode: Corning 8.5/125µm, 1310nm wavelength

Insertion Loss: Network Port: 1.25 dB, Monitoring Port: 1.25 dB

#### Connectors:

**Monitoring Ports:** (16) RJ45 (copper) or (16) SFP (fiber)

**Network Ports:** (16) RJ45 (copper) or (16) Duplex LC (fiber)

**Management Ports:** (1) RJ45 RS232 and (1) RJ45 10/100/1000

\*Note: SFP transceiver modules ordered separately

#### Management:

CLI local or SSH remote, RADIUS, TACACS+, RMON

#### Certifications:

Safety: UL, CE EMC: FCC, VCCI, C-Tick Environmental: RoHS, WEEE

Fully IEEE 802.3 compliant

Part Number	Description
IBP-8000	iBypass HD, Main Chassis, 4 DBM Bays
IBP-8000-DC	iBypass HD, Main Chassis, 4 DBM Bays, -48V
DBM-100	DBM, 10/100/1000, RJ45
DBM-200	DBM, Gig, MM, 62.5um, SFP Monitor Ports
DBM-250	DBM, Gig, MM, 50um, SFP Monitor Ports
DBM-300	DBM, Gig, SM, 8.5um, SFP Monitor Ports
SFPKT-SX	GigaBit Fiber SX SFP with cable
SFPKT-50SX	GigaBit Fiber SX SFP with cable 50µm
SFPKT-CU3	10/100/1000 Copper SFP with cable *
* Operates at 1000 Mbps only in iBypass HD	

All products include a 1 year manufacturer's warranty. A service plan with up to 7 years coverage and an advanced replacement option is available.

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