

ITS EXPRESS

A **HN** HARDENED NETWORKS BRAND



HN-80 BP Overview

ITS Express/ Hardened Networks products have been specifically engineered to exceed the challenging demands of extreme environmental conditions and high bandwidth 5k multicast video streams.

Whether a media converter or a Full Layer 3 switch, the design incorporates best-in-class chipsets to provide an extremely robust, redundant architecture able to be reliable in any integration.

- ▶ Throughput not affected and no extra delay
- ▶ Din-rail and wall mounting enabled
- ▶ Relay output for power failed warning
- ▶ Low insertion loss

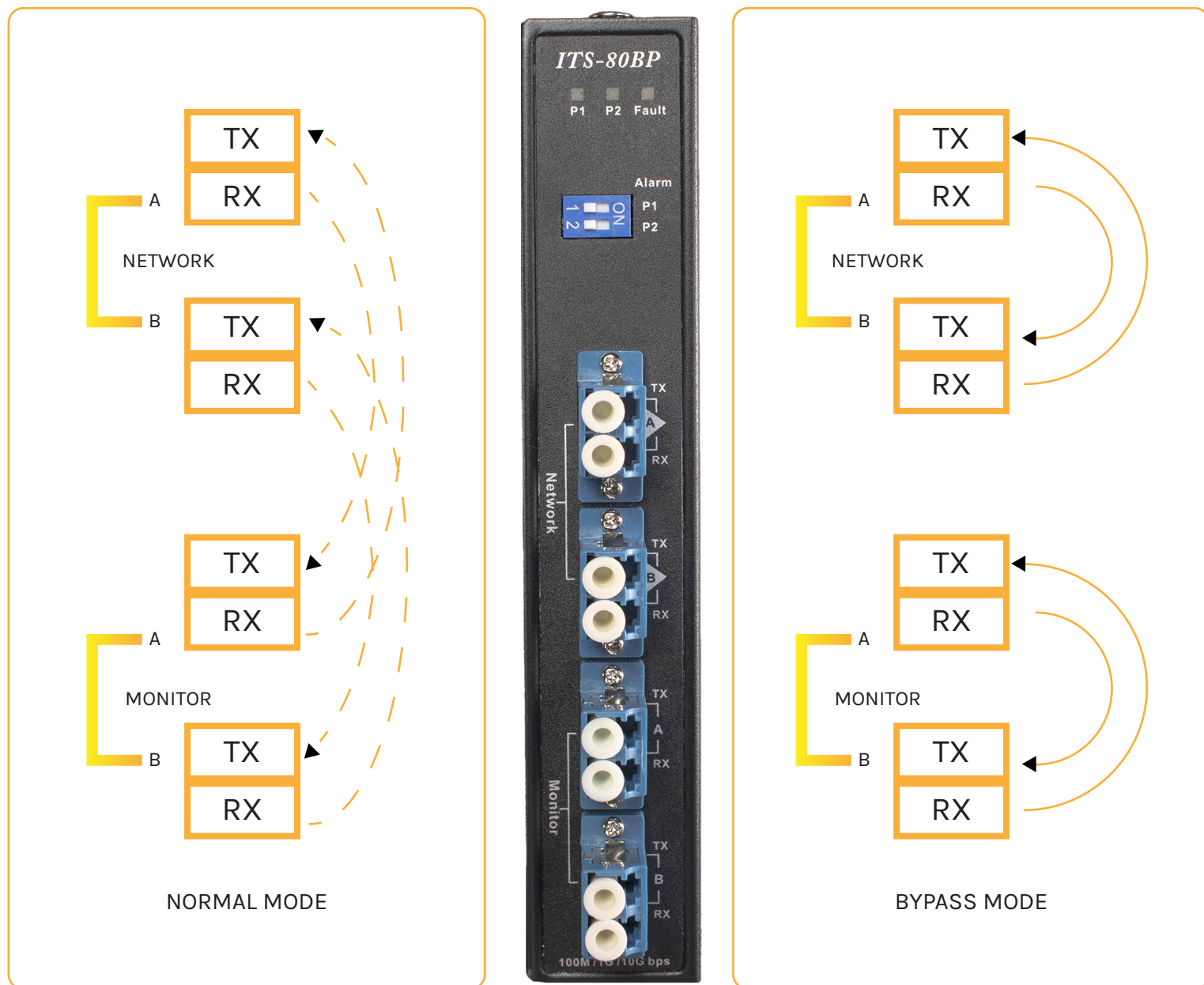
HN-80BP is an external bypass switch for 100M/1G/10G fiber optic networks. This fiber optic bypass switch protects from network failures and network maintenance by ensuring network integrity during power loss.

This fiber optic bypass switch includes network ports and monitor ports. The network ports are used to connect to the fiber patch panel and provide the link protection mechanism, while the monitor ports are used for the down-link networking device. When power is on, the bypass switch is in normal operation mode, and the local networking device is connected with main network.

When in power failure state, the bypass switch is set to bypass mode to isolate the main network from the local networking device.

Switch Model	HN-80BP
Physical Ports	
LC Connector	4 Duplex Single-mode LC connector
Technology	
Fiber Ethernet	-Optical Fiber: Single Mode 9/125nm -Operating Wavelength: 1260 ~ 1570nm -Switch Time: <10ms
DIP Switch Settings	-DIP Switch No. 1: Power-1 Failed warning detection - (On) relay enable (Off) relay disable -DIP Switch No. 2: Power-2 Failed warning detection - (On) relay enable (Off) relay disable
LED Indicators	-Power Indicator - Green : Power LED x2 -Normal Indicator - Green On : Operated in normal mode
Fault Contact	Relay output for power failure warning
Power	
Overload Current Protection	Present
Reverse Polarity Protection	Present on terminal block
Redundant Input Power	Dual 12 ~48 VDC power inputs at DC Jack and 4 pin terminal block
Power Consumption (Typ.)	2.7 watts
Physical Characteristics	
Weight (lb/g)	0.90lb/405g
Dimension (W x D x H)	443.7 (W) x 200 (D) x 44 (H) mm
Enclosure	Din rail mounted metal
Environmental	
Storage Temperature	-40 to 85C (-40 to 185F)
Operating Temperature	-40 to 85C (-40 to 185F) (No Fans)
Operating Humidity	0% to 98% Non-condensing
Regulatory Approvals	
EMI	-FCC Part 15, CE EN61000-4-2 (ESD) -CE EN61000-4-3 (RS) -CE EN-61000-4-4 (EFT) -CE EN61000-4- 5 (Surge) -CE EN61000-4-6 (CS) -CE EN61000-4-8 -CE EN6100-4-11
EMS	-EN61000-4-5 (Surge) -EN61000-4-6 (CS) -EN61000-4-8 -EN61000-4-11 -Shock Vibration: IEC60068-21-2, IEC60068-21-1 -Environmental Safety: IEC60068-2-1, IEC 60068-2-2, IEC60068-2-30, EN60950-1 NEMA TS-2
Warranty	5 Years

2D MODEL OF HN - 80BP





Other Solutions

Hardened Networks has created variety of high quality products to fit your needs. If you did not find what you needed in the HN-80BP, please browse our other solutions.

Ethernet Switches

Communications



HN-8012-24 V3

- 4 Ultra Fiber Ports SFP+ 100Mb/1000Mb/2.5Gb/10Gb
- 4 Enhanced Fiber Ports SFP 100Mb/1000Mb/2.5Gb
- 16 Copper Ports 10Mb/100Mb/1000Mb
- 176 GBPS Back-Plane



HN-8042 V3

- 2 Ultra Fiber Ports SFP+ 100Mb/1000Mb/2.5Gb/10Gb
- 2 Enhanced Fiber Ports SFP 100Mb/1000Mb/2.5Gb
- 8 Copper Ports 10Mb/100Mb/1000Mb
- 96 GBPS Back-Plane



HN-8012-24+ V3

- 4 Ultra Fiber Ports SFP+ 100Mb/1000Mb/2.5Gb/10Gb
- 4 Enhanced Fiber Ports SFP 100Mb/1000Mb/2.5Gb
- 16 Copper Ports 10Mb/100Mb/1000Mb
- Two sets of bypass fiber ports
- 176 GBPS Back-Plane



HN-8042+ V3

- 2 Ultra Fiber Ports SFP+ 100Mb/1000Mb/2.5Gb/10Gb
- 2 Enhanced Fiber Ports SFP 100Mb/1000Mb/2.5Gb
- 8 Copper Ports 10Mb/100Mb/1000Mb
- Two sets of bypass fiber ports
- 96 GBPS Back-Plane



HN- MC-1000

- 10Mb/100Mb/1000Mbps Ethernet BASE-T/TX to SFP (MM or SM)
- Optical port supports 100Mb or 1000Mb full duplex data



HN- MC-100

- 10Mb/100Mbps Ethernet BASE-T/TX to SFP (MM or SM)
- Flexible power 18-46VAC/12-60 VDC



HN- VC-100

- High Speed VDSL-2 Technology
- 10Mb/100Mbps Ethernet BASE-T/TX to a pair of copper cables
- Flexible power 18-46VAC/12-60 VDC

We here at Hardened Networks are proud to carry products that are certified by:

