

Hardened Mini Industrial Switches

Tough, DIN rail-mountable 10-/100-Mbps Ethernet devices for switching copper or copper/fiber traffic.



FEATURES

- » Inexpensive, unmanaged devices for easily integrating a legacy 10-Mbps or 100-Mbps network device into a 100-Mbps network in harsh environments—without taking up much-needed space.
- » Available in a 5-port 10BASE-T/100BASE-TX copper-only version and 5-port (4-to-1) 10BASE-T/100BASE-TX plus 100BASE-FX versions.
- » Copper/fiber versions extend much farther than the copper-only switch.
- » All feature an industrial-strength plastic case and comply with IEC 61000-Part 6-2 Generic standards for electromagnetic compatibility (EMC) in industrial environments.
- Offer full wire-speed forwarding rates across the network.
- » Fiber models offer interference-free connections plus extended distances.
- » Auto MDI/MDI-X copper ports autonegotiate for 10-/100-Mbps speed and autodetect fullor half-duplex mode.
- Support 2048 MAC addresses and feature a 384 kb buffer memory.
- Can be installed easily on a DIN rail. Mounting kit is included.

OVERVIEW

Add switch segments in harsh environments with the Black Box® Hardened Mini Industrial Switches.

Featuring a rugged industrial case, they're particularly ideal for any factory application where you need unmanaged switching between multiple traffic segments. Or use them in power plants, mining and military sites, or anywhere temperature and contaminants would ordinarily wreak havoc on the switching circuitry.

The Hardened Mini Industrial Switches function at temperatures ranging from 14° to 140° F (-10 to $+60^{\circ}$ C).

They're also compact. They give you an affordable switching solution for harsh environments where you have limited space for networking hardware, such as in transportation cabinets on roadsides, on shop floors, and in multi-tenant dwellings or fiber-to-the-home (FTTH) applications.

Plug and play, the switches don't have any complicated software to set up and run.

What's more, the Hardened Mini Industrial Switches can be DINrail mounted (a mounting kit is included) and are equipped with terminal block power input for use in industrial applications that require Ethernet switching.

Eight versions are available: A copper-only switch with five 10BASE-T/100BASE-TX ports and six 4-to-1 copper/fiber optic switches with four 10BASE-T/100BASE-TX ports and a 100BASE-FX fiber port.

The copper/fiber versions are available with SC or ST® fiber connectors for both multimode and single-mode connectivity. On the LBH120A-H-75K-SC single-mode switch, interconnection between two nodes can reach as far as 75 kilometers (46.6 mi.).

Because they perform standard autonegotiation and include auto-MDI-X on the copper ports, they're cost effective for integrating legacy 10-Mbps networks with 100-Mbps Fast Ethernet networks. The copper ports autonegotiate for 10- or 100-Mbps speed and auto-detect full- or half-duplex mode.

TECH SPECS

Item	ode
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Hardened Mini Industrial Switches

			5-Port			
LBH120A-H		Copper	(5) 10-/100-Mbps (
			5-Port (4-to-1)			
(4) 10-/100-Mbps Copper + (1) 100-Mbps Fiber						
LBH120A-H-SC	20 km	SC	Multimode			
LBH120A-H-ST	20 km	ST				
LBH120A-H-20K-SC	20 km	SC	Single-Mode			
LBH120A-H-40K-SC	40 km		-			
LBH120A-H-75K-SC	75 km					
LBH120A-H-20K-ST	20 km	ST				

For your switch, choose a DIN rail-mountable DC power	r supply
or an AC power supply	

DIN Mount Power Supply	24-VDC	PSD012
	48-VDC	PSD014
External 100-240-VAC Power Adapter	•	
12-VDC Output Jack	U.S. Cord	PS002A
·	No Cord	PS002
12-VDC Stripped Ends Output	U.S. Cord	PS003A
	No Cord	PS003