LB320A Quick Start Guide

Distance and data rate for the Ethernet Extender port:

Table 6-1. Distance and Data Rate.

Distance (m)	Data Rate (Mbps)
300	100
400	80
600	60
800	40
1200	20
2600	1

This distance/data rate information is measured according to a testing standard in the laboratory. The actual installation will be affected by the quality of the copper wire and the impact of noise disturbance. The connection speed will be affected.

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BLACK BOX   LB320A

Industrial Ethernet Extender, 10/100, 1-Port
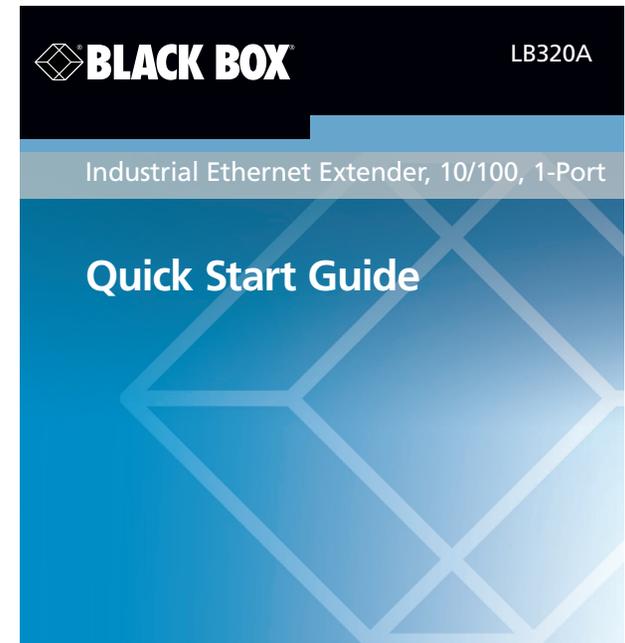
Quick Start Guide

1. Unpacking

Unpack the items. Your package should include:

• One LB320A Industrial Ethernet Extender

• This printed quick start guide

If items are missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com. Keep the carton and packing material.

2. Select a Location

• Installation: Desktop, Wallmount, DIN-Rail mount.

• Identify a power source within 6 feet (1.8 meters).

• Choose a dry area with ambient temperature between +14 and +140° F (-10 and +60° C).

• Keep away from heat sources, sunlight, warm air exhausts, hot-air vents, and heaters.

• Be sure there is adequate airflow.

• Keep the device at least 6-ft. (1.8-m) away from the nearest source of electromagnetic noise, such as a photocopy machine.

3. Connect to the Data Ports

1. Insert one end of the Ethernet cable into a switch port.

2. Connect the other end into the Ethernet port of the device.

3. Insert the voice grade copper wire between one pair of Ethernet Extenders via the Ethernet Extender port (RJ-11 connector or terminal block). One device must be set to LOC mode and the other to Auto mode when two devices are connected.
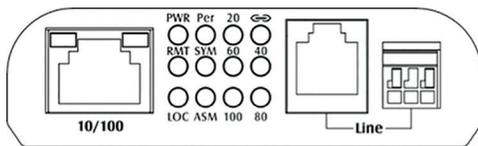

Figure 1. Front panel of the extender.

Table 1. LEDs on the extender.

LED	Color	Status
PWR	Green	ON = Receiving power OFF = Power off
Ethernet Extender Port		
Link Activity	Green	ON = Connection is established OFF = No connection is established Flashing = Port is sending or receiving data
Per	Green	ON = Performance mode OFF = Standard mode
RMT	Green	ON = Remote mode
LOC	Green	ON = Local mode
SYM	Green	ON = Symmetric mode
ASM	Green	ON = Asymmetric mode
Line Speed	Green	ON = Displays the link speed in Mbps
10/100TX port		
Link/Activity	Green	ON = Valid network connection OFF = No data transmission on port Flashing = Port is sending or receiving data
Speed	Yellow	ON = Link speed at 100 Mbps OFF = Link speed at 10 Mbps

4. Apply DC Power

Connect the supplied AC to DC power adapter to the receptacle on the rear panel of the Ethernet Extender, and then attach the plug into a standard AC outlet.
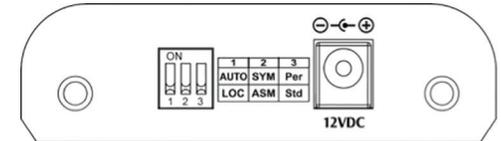

Figure 2. Back panel of the extender.

5. DIP Switch

Table 5-1. DIP Switches

Pin	Up	Down
DIP Switch 1	Auto mode	Local mode
DIP Switch 2	Symmetric	Asymmetric
DIP Switch 3	Performance	Standard

6. Top Panel
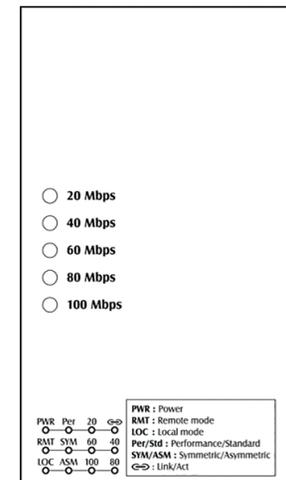
Figure 3. Top panel of the extender.