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Black Box Corporation.

BLACK BOX[®]

NETWORK SERVICES

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LASERLINK MINI 20



Key Features

- ▶ *Licence free connection*
- ▶ *Full Duplex Wire Speed Connectivity*
- ▶ *Power Over Ethernet - No additional power required*
- ▶ *Rapid installation and redeployment*
- ▶ *Standard Fast Ethernet Interface*
- ▶ *Ultra Lightweight, Compact Design*
- ▶ *Warranty - 1 Year*

Product Overview

The Black Box LaserLink Mini series of products revolutionise wireless communications by offering high speed and secure laser based Free Space Optical connectivity at an unbeatable price-performance ratio.

The LaserLink Mini 20 provides wire speed and full duplex Fast Ethernet wireless connectivity up to 20m for both indoor and “across the street” applications through windows.

LaserLink Mini 20 links can be connected to any PoE compliant network equipment or any standard Ethernet port through a PoE injector device. A separate power injector is not included with the unit and must be provided either from an Ethernet device or as a separate injector as an extra item from Black Box.

The ultra lightweight, compact mechanical design with a wide-angle optical system makes LaserLink Mini 20 easier to install than any other wireless solution.

Besides the visual status indicators the LaserLink Mini 20 also includes a buzzer to provide audio assistance for the alignment. The transparent and wire speed data transfer together with virtually zero latency ensures easy integration of the system into any environment. Because they use infrared light as a transmission medium, Black Box systems do not require frequency licences and the transmission is not affected by electromagnetic interference. The concentrated laser beam is extremely hard to intercept, or even to discover, as it is undetectable by spectrum analysers or similar instruments.

Product Description

One Black Box LaserLink Mini 20 system comprises of two Laser Heads, one at each end. The Laser Heads have to be installed in places where a clear optical path exists

between the two sites. The laser heads contain a built-in signal monitoring feature, which provides visual signal strength indication and LINK status information, accessible on the rear of the head assembly.

The PoE complaint network equipment can be connected directly to the laser head using a standard Cat 5 UTP cable. Alternatively, any port on a standard network device can be enhanced by means of an external PoE injector, making the direct connection to a LaserLink Mini 20 link possible. No other hardware or software is required for a fully functional connection!

The optional external management unit is equipped with status indicators that give an overview of the current FSO device status in the blink of an eye. The built-in web server functionality provides user friendly,

one click device management while the SNMP interface enables easy migration with existing network management systems. With the enhanced features supporting simple and fast installation and trouble-free operation Black Box's LaserLink Mini 20 delivers the best price/performance on the market today.

Applications

Its compact size and low weight make the LaserLink Mini 20 ideal for rapid deployment and temporary links. It is suitable for through glass communication so can be mounted discreetly within a window frame as a building to link to provide network extension where it is impractical to provide a cable based solution. All that is required is connection to the network with an 802.3af interface to provide power and the system is up and running.

Because of its wide angle of acceptance

this unit is ideal for data capture from service vehicles and moveable platforms. Warehouse, delivery and transit authorities are areas where this unit can provide a solution to secure download of data captured on the move. The full wire speed connection makes it especially suited to downloading video files for law enforcement, security and safety management.

Investment Protection

By utilising the most popular copper based industry standard compliant interfaces a Black Box system protects the customers' investments in long-term projects. The most important features of LaserLink Mini 20 are the simplicity, easiness and rapidity of the installation process. LaserLink Mini 20 does not require separate power cabling and the alignment of the equipment is very simple.

Specifications

Connections:

LAN Interface: 100BaseTx, RJ-45 socket

Management:

Indicators: Power, Link Status, Dynamic signal level LED array, Audio alignment aid.

Engine (Laser):

Light Source - Laser Diode, 785nm wavelength. Laser Diode Power - 70mW, Optical output Class 1M Detector - SiPIN Photodiode Dynamic Range - >12dB Beam Divergence - 100 mrad Receiver Acceptance Angle - 100 mrad

Nominal Range - 20 metres

Operating Environment:

Operating Temperature - minus 25 to plus 60 centigrade Storage Temperature - minus 40 to plus 80 centigrade Humidity - 95% Non Condensing Protection Rating - IP20 Power via interface - IEEE 802.3af Standard Compliant Dimensions - 172 x 124 x 149 mm, Weight 2.5 Kg

Ordering Information

ITEM	CODE
LaserLink Mini 20.....	LWU0020

You may also need an 802.3af power injector - call tech support on 0118 965 6000 for details.