



BLACK BOX[®]

NETWORK SERVICES

LaserLink Mini 350

Key Features

- ▶ The smallest Laser Unit available
- ▶ High Speed – full 1Gbps data rate
- ▶ Specifically Designed to support through glass transmission
- ▶ Single full duplex transmitter receiver.
- ▶ Lightweight
- ▶ Easy to install



The LWU350-TP is a 1000Mbps Free Space Optics communication system consisting of two Optical Heads and two Electronic units, plus bracketry. This link provides very fast and high capacity optical wireless connectivity between two local area networks equipped with the terminals (LAN-to-LAN connectivity), wireless connection of users to metropolitan area networks, fiber extension for commercial users and redundancy, mobile cell sites and "wireless hot spots" backhaul, emergency and temporary connections.

The Black Box LaserLink Mini employs Free Space Optics technology to link networks at distances up to 350 meters apart. This is the most compact Laser based product currently available employing patented technology in its construction. The lens configuration in the single head is both the transmitter and receiver. The compact electronic module has direct connection for Gigabit Ethernet and the link operates at this true full rate. There is no fall off in performance as packet rate increase.

The compact size of the complete system and the special design of the optics mean that this is an ideal unit for building to building communication where rapid deployment is required or dedicated circuits are unavailable. The facility to transmit through window glass whilst retaining high quality transmission means that the heads can be mounted unobtrusively within a window frame. This saves the cost of expensive cabling to a roof top and eliminate the need for external power. This can be especially helpful in multi tenanted buildings where access to the roof or extended cabling requires special permission from landlords.

Although ideal for simple internal installation the unit is fully weatherproof and can be mounted outdoors where needed to gain line of sight. The absence of electronics in the head and its connection by a single robust fibre allow for quick and easy installation whether indoors or out.

The head is fitted with a gunsight for rapid basic alignment whilst the electro-

nic module has a digital signal strength meter enabling optimum signal strength to be achieved. Two thumbwheels within the head allow rapid fine tuning of the optic for maximum link performance whilst eliminating the need for adjust of heavy brackets or special tools.

The terminals are completely eye safe (Class 1M) and do not generate any radiation harmful for a naked human eye. They are safe in operation, do not interfere with other office equipment, and do not require any special protection measures.

The system does not require any interfaces or other equipment besides the terminals for its operation, and is shipped with electronic units ready for plugging into customer premises equipment Gigabit Ethernet ports.

Key system differentiators:

- the only wireless optical system suitable for installation behind windows of poor optical quality including the ones that may be covered with sheeting water and/or water droplets during heavy rainfall;
- The only product in the market immune to strong atmospheric turbulence caused by heated roof (hot air rising from white roofs), air-conditioning systems, and other sources of heat in a free-space path that would otherwise obstruct wireless optical communication;
- Highly convenient and very compact fine alignment gear installed inside the optical system is based on precise adjustment of the optical axis rather than on movement of the entire optical head. This makes installation simple and quick.
- One of the few 1GB systems on the market and it really does deliver the gigabit performance required!

Specifications

LAN Interface — RJ45 1000BASE-T

Light Source — Class 1 Laser (Eye Safe) Dual Wavelength WDM transmission/Reception

Range — 350 Metres Maximum

Electronics Unit — 1U high, stand alone or 19" Rack Mounting

Head Size — 17 cmx23cmx11cm (DxHxL including mount)

Weight — 0.614 Kg (Head only)

Power — 110-230V Autosensing

Ordering information

ITEM

CODE

FSO Laser SetLWU350-TP

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