

WL-62

A Wiz-Lite Product



- 1000Base-T to 1000Base-SX/LX A/N transparent special F/O mode converters.
- Operates BiDirectional on dual fiber and UniDirectional on single fiber connections (any direction) .
- Complies with IEEE standards 802.3ab 1000Base-T, 802.3z 1000Base-SX/LX.
- Highly reliable 3R technology (Retiming, Reshaping and Regeneration), supports any frame size.
- Auto-negotiation, auto MDI/MDIX, auto polarity correction on the 1000Base-T copper port.
- Special and unique force FDX mode on the fiber 1000Base-SX/LX port.
- Link Verification - Propagation Of No Link (PONL).
- Plug & Play installation and operation.
- Available for Multi/Single Mode fibers with SC or ST connectors.
- Polarity free DC input, 5VDC or wide range 5-60VDC.
- Available for indoor, outdoor/industrial environments.
- Desktop, DIN rail and wall mounting options.

The WL-62 is a unique stand alone Gigabit converter providing BiDirectional and UniDirectional transparent conversion between 1000BaseT copper media and 1000BaseSX/LX fiber media in compliance with IEEE standards.

The WL-62 is used to extend the distance and transparently connect two Gigabit Ethernet Auto-negotiation Twisted-Pair devices over MM or SM fiber optic media.

The special and unique force FDX fiber mode of the WL-62 enables transparent BiDirectional communication over dual fiber connection, and UniDirectional communication over single fiber connection to its WL-62 F/O link partner. This unique option is usefull and advantageous for standard and special application.

Using 3R technology (Retiming, Reshaping and Regeneration) the WL-62 provides highly reliable data transfer, for any frame size, over extended links with no performance degradation.

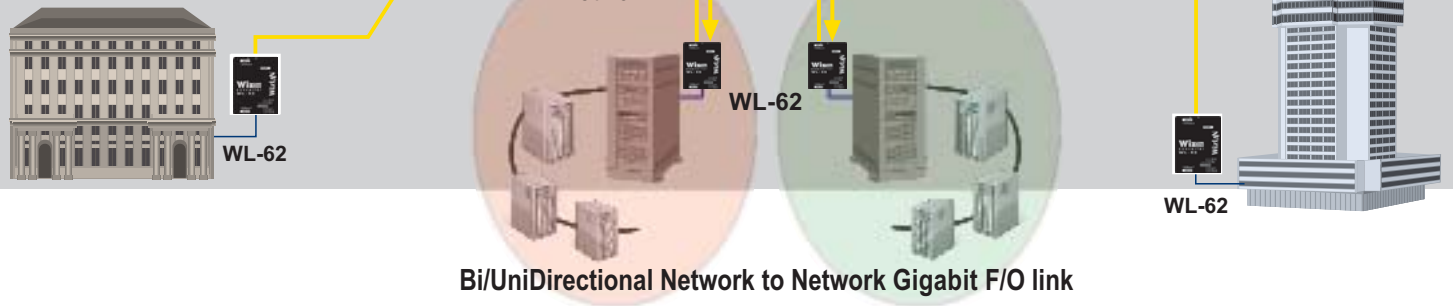
The WL-62 supports 1000Base-T Auto-Negotiation, auto MDI-MDIX and auto polarity on the copper port, and 1000BaseSX/LX force FDX special mode on the fiber port. The fiber port is available with ST or SC connectors for duplex multi-mode or single-mode fibers and single fibre single-mode fiber (SC).

The WL-62 support PONL (Propagation Of No Link) link verification option, copper to fiber (C2F) and fiber to copper (F2C). PONL enables to forward a no link situation through the convertes and notify the link partners by dropping their link, of a no link situation anywhere along the link. PONL provide a powerfull link management toll for operation and maintanance.

The WL-62 are plug & play devices with simple DIP switch configuration and clear LED indications that assures fast & easy installation, operation and maintenance.



Typical Configuration



Technical Specifications

WL-62 Special F/O mode Gigabit Converter

1000Base-T Copper TP port (RJ45)

1000Base-T, auto-negotiation auto MDI/MDIX and polarity
100meter (330 ft) distance over CAT5e or above TP cables

1000Base-X Fiber Optic Port

1000Base-X, force full duplex FDX mode
Dual/single fiber (850nm MM range 220/550m; 1310/1550 nm SM rang 0-70Km)
Fixed fiber interface: Multimode (MM) 850nm Connectors: SC, ST
Singlemode (SM) 1310/1550nm Connectors: SC, ST

Technology

Physical layer 3R transparent Gigabit repeater (Retiming, Reshaping and Regeneration), supports any frame size.
Pure HW in-circuit single/uni-direction diode implementation.

LED Indicators

POWER - Power "ON" indication
LINK/ACT - Link/Activity indication, LED per port

Setup Options (via DIP switch)

Link Verification: PONL Off / On - F2C (fiber to copper)
PONL Off / On - C2F (copper to fiber)
Reset: RESET or NORMAL operation

Standard Compliance

IEEE802.3ab IEEE802.3z

Environment

Operating Temp (°C): 0 to +45
Operating Temp (°F): 32 to 113
Storage: -40 to +85°C (-40 to 185°F)
Humidity: 10% to 90% non-condensing

Standard

Outdoor/Industrial

-20 to +70
-4 to 158

Safety and Emission

CE, FCC part 15, EN60950

Power

DC input (standard): 5VDC, polarity insensitive.
DC input (wide range): 6 - 60 VDC, polarity insensitive.
DC power consumption: 4Watt max. .

External switching power adaptor (EPS), supplied with the standard DC model

AC input: 90 - 264 VAC 50/60Hz (14 Watts max.)

DC output: 5VDC 1-2 Amp regulated, polarity: - 

Module Dimension

WL-62

Height

94.5mm(3.8")

Width

78.5mm(3.1")

Depth

27mm(1.06")

Ordering Information:

WL-62/___/___/___ Gigabit converter, one port 1000Base-T A/N, one port 1000Base-X special F/O force mode, ([fiber type], [connector type],). Inc. ext. power adaptor (EPS).[option]

Ordering Terminology

WL-62/[fiber type]/[connector type]/[options]

M = Multimode, 850nm, 8dB, 220/550m
S = Singlemode, 1310nm, 10dB, 0-10Km
S1 = Singlemode, 1310nm, 17dB, 0-20Km
S2 = Singlemode, 1550nm, 17dB, 0-50Km
S3 = Singlemode, 1550nm, 24dB, 0-70Km

SC
ST

[] - Standard 5V DC input, Temp 0°C to +45°C
W - Wide range DC input, Temp 0°C to +45°C
IND - Standard 5V DC input, Outdoor/IND - Temp. -20°C to +70°C
W/IND - Wide range DC input, Outdoor/IND - Temp. -20°C to +70°C

Note: for other fiberoptic distances, interfaces and/or connectors please contact WizLAN representative

Example: **WL-62/M/ST** Gigabit converter, one port 1000Base-T A/N, one port 1000Base-X special F/O force mode (Multimode, 850nm, 8dB, 220/550m, ST). Inc. ext. power adaptor (EPS).

All specifications are subject to change without notice. Neither manufacturer nor seller shall be liable for any loss, damage, or injury, direct or consequential, arising from the inability to use the product.