



WL-620B

A Wiz-Lite Product



- 10/100/1000Base-T to 1000Base-SX/LX A/N triple speed advanced converter
- Complies with IEEE standards 802.3/802.3u, 802.3ab and 802.3z
- Supports jumbo frames up-to 9K bytes
- Supports PONL (Propagation Of No Link)
- Green, significant power savings link down
- Store-and-Forwards or fast Cut-Through modes
- Auto-negotiation, auto MDI/MDIX and polarity correction
- Copper cable up to 100m on Cat5, 5e or 6 TP cable
- SFP and Fix fiber optic interfaces (SC or LC)
- Multimedia fiber: up to 220/550m (62.5/50m MMF) and special version for 2km (SC or LC connectors)
- Singlemode fiber: dual fiber up to 70km, single fiber up to 20km and CWDM up to 80km (SC or LC connector)
- Highly visible LED indicators
- External universal power adaptor (EPS)

The WL-620B is a stand alone triple speed Gigabit converter providing conversion between 10/100/1000Base-T/TX copper media (RJ45) and 1000Base-SX/LX fiber media in compliance with IEEE 802.3 standards.

Using high speed non-blocking switching technology the WL-620B enables speed conversion and highly reliable data transfer over F/O links. The converter operates in Store & Forward or fast Cut-Through modes and support PONL for end-to-end link verification. PONL (Propagation Of No Link) algorithm will force down a converter port once the other converter port loses its link. Both the converter operation mode and PONL are internal (protected) DIP switch selectable.

The WL-620B supports 10/100/1000Base-T auto-negotiation, auto MDI/MDIX and polarity correction on the copper port, and 1000Base-SX/LX auto-negotiation on the fiber port. The converter supports jumbo frames up-to 9K bytes.

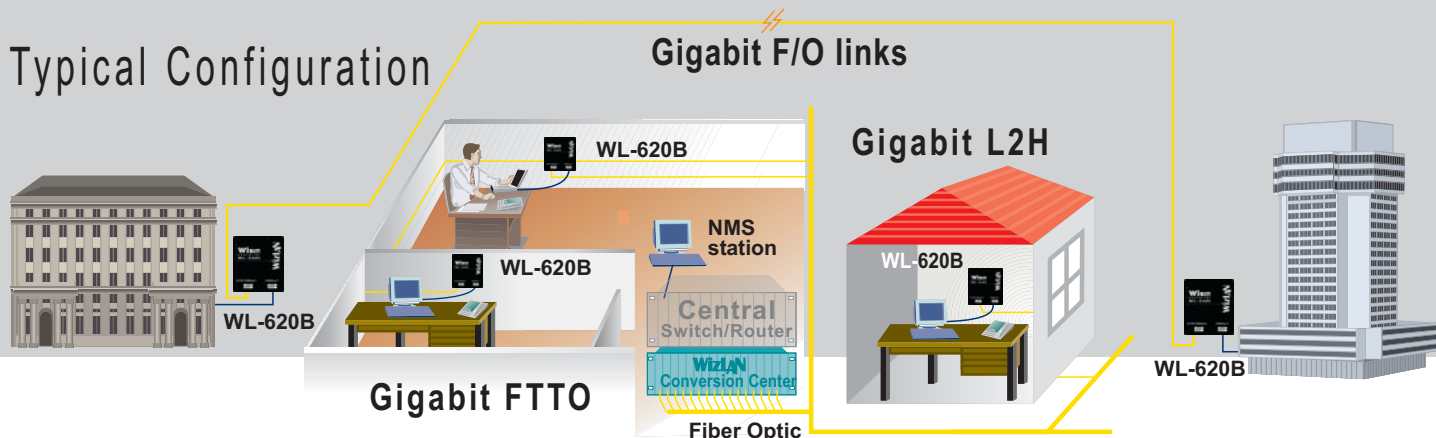
The fiber port is available with SFP port (recommended with WizLAN approved SFP transceivers) or fixed SC or LC connectors for duplex multi-mode or single-mode fibers and single fibre single-mode fiber (SC).

Per port indicators provide high visibility of port status and converter activity in both desktop and wall mounting.

The WL-620B is a GREEN product, providing significant power saving on the disconnection of the copper port.



Typical Configuration



Technical Specifications

WL-620B 10/100/1000Base-T to 1000Base-SX/LX Triple Speed Gigabit converter

Fiber port: 1000Base-SX/LX (SC/LC or SFP)

Media and Connectors:

Multimode (MM), 850nm Connectors: SFP or SC, LC

Singlemode (SM), 1310/1550nm Connectors: SFP or SC, LC

Distance / power budget:

Multimode (MM 62.5/125, 50/125) 220/550m / 8dB

(MM 62.5/125, 50/125) 2km (M2 special model)

Singlemode (SM 9/125) 10km/10dB, 20km/17dB (1310nm)

50km/17dB, 70km/24dB (1550nm)

Single Fiber (SM, SF dual wavelength) 10km/12dB

20km/17dB

Copper Port: 10/100/1000Base-T/TX

10/100/1000Base-T/TX RJ-45, auto MDI/MDIX and auto polarity correction

Auto-negotiation

100 meter (330 ft) distance over TP cables Cat5, 5e and 6

Features:

Auto-negotiation on both TP (copper) and fiber ports

Auto MDI/MDIX and auto polarity correction

PONL - Propagation Of No Link

Technology:

Store & Forward or fast cut-through, high speed, non-blocking switching technology

Maximum frame size: 9K bytes

LED Indicators:


POWER: Power ON indication

Fiber port: Link/Activity

Copper (TP) port: Link/Activity, 1000M speed

Power:

EPS (External Power Adaptor), AC input: 100-240VAC 50/60Hz

DC output: 5 VDC, 2 Amp Polarity: 

Standards Compliance:

IEEE802.3, 802.3u, 802.3ab and 802.3z

Safety and Emission Standards:

CE, FCC Part 15, EN60950

Dimensions:

Width

Depth

Height

WL-620B 96mm(3.8") 104mm(4.1") 27mm(1.1")

Environment:

Operating Temp.: 0°C to 45°C (32°F to 113°F)

Storage: -30°C to 70°C (-22°F to 149°F)

Humidity: 10% to 90% non-condensing

Ordering Information:

WL-620B/___/___/___ Triple speed Gigabit converter, one port 10/100/1000Base-T, one 1000Base-X F/O port ([fiber type], [connector type]). Inc. External Universal power adaptor (EPS)

Ordering terminology:

WL-620B/[Fiber type]/[connector type]

↓

↘ **SC or LC**

M = Multimode, 850nm, 0-220/550m

M2 = Multimode, 0-2km

S = Singlemode, 1310nm, 10 dB, 0-10km

S1 = Singlemode, 1310nm, 17dB, 0-20km

S2 = Singlemode, 1550nm, 17dB, 10-50km

S3 = Singlemode, 1550nm, 24dB, 30-70km

SF-A/B/S = Single Fiber, SM -1550/1310nm, 12dB, 0-10km

SF-A/B/S1 = Single Fiber, SM -1550/1310nm, 17dB, 0-20km

↔ Dual wavelength works in pairs: Type A (SF-A) TX-1550nm/RX-1310nm connects to type B (SF-B) TX-1310nm/RX-1550nm

or

SFP (for WizLAN approved SFP transceivers)

Example: **WL-620B/S/SC** Triple speed Gigabit converter, one port 10/100/1000BaseT, one 1000BaseX F/O port (Singlemode, 1310nm, 10 dB, 0-10km, SC), Inc. External Universal 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.



WizLAN Ltd. P.O. Box 7948, Haifa 31078, Israel e-mail: sales@wizlan.com http://www.wizlan.com Tel: +972-4-857-2199 Fax: +972-4-857-2204

Rev. 01