WizLAN Ltd.

10/100Base-TX to 100Base-FX Supper Converter

WL-240

Wiz lite

A Wiz-Lite Product

- Dual speed 10/100M Super Converter
- Transparent 3R* conversion and switch operation modes
- Auto MDI, Auto-negotiation, force modes and flow control
- Enhanced Link Verification features:
  - > Propagation Of No Link (PONL)
  - > Far end-Fault Indication (FEFI)
  - > Loop-back test
  - > Remote TP Status Indication (RTPSI)
- Easy setup via external DIP switch
- SFP and SC/ST versions supporting multi/single mode and dual/single fibers
- Highly visible LED status indicators
- Fiber protector (/FP) version
- External wide-range power supply
- Desktop and wall mounting

The WL-240 Super Converter provids dual speed F/O conversion between 10/100Base-TX copper media and 100Base-FX fiber media in compliance with IEEE802.3 standards. The converter automatically selects the convesion mode: fully transparent 3R (Retiming, Reshaping and Regeneration) conversion mode if the copper port locks on 100M, and switch mode if the copper port locks on 10M.

The enhanced link verification features: propagation of no link (PONL), far end fault indication (FEFI), loop back test and remote TP status indication (RTPSI) assure fast installation, highly reliable operation, minimal downtime and cost effective service.

The converter supports auto MDI/MDI-X, auto-negotiation (A/N) and manual selection of FDX or HDX mode on the TX and FX ports, flow control (enable/disable) and enhanced link verification features. The super converter is fully transparent to any frame size (including Jumbo frames) in transarent mode and support large VLAN frames, upto 1600 bytes, in switch mode.

The fiber port is available with open SFP F/O port (atmost flexibility) or fixed SC or ST F/O conectors for multimode (MM), singlemode (SM) and single-fiber links for distances of up to 100Km.
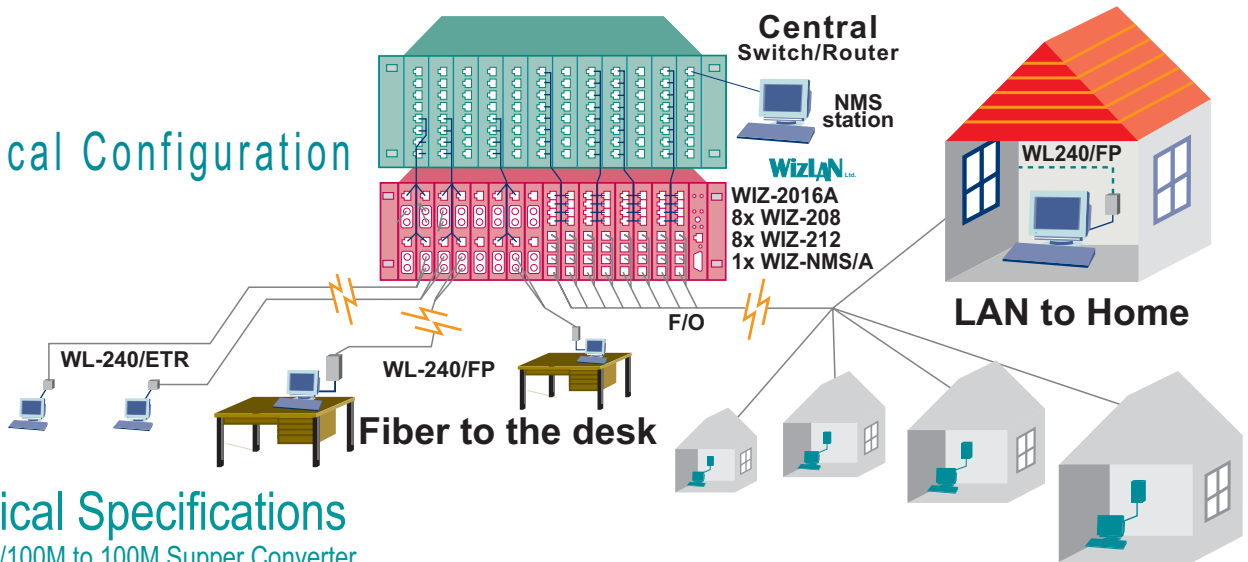
Eight positions external DIP switch enables easy setup of the converter and link verification operation, including converter/switch mode, auto-negotiate/manual, duplex, speed, flow control, PONL, loop-back test and RTPSI.

Highly visible LED indications display the status of the converter TP and F/O ports, as well as the status of the remote TP port and loop-back test results provided the remote converter is a WizLAN device that supports RTPSI and loop-back.

The WL-240 is a plug & play device that assures fast & easy installation, operation and maintenance.

WizLAN Ltd. *Your Connectivity Partner*

Typical Configuration

Central Switch/Router

NMS station

WIZ-2016A
8x WIZ-208
8x WIZ-212
1x WIZ-NMS/A

WL240/FP

LAN to Home

WL-240/ETR

WL-240/FP

Fiber to the desk

F/O

Technical Specifications

WL-240 10/100M to 100M Supper Converter

10/100Base-T Copper TP port (RJ45)
10/100Base-T, auto-negotiation or manual (speed, duplex)
Auto MDI/MDIX and polarity
100meter (330 ft) distance over CAT5 or above TP cables

100Base-FX Fiber Optic Port
SFP cage for standard 100M SFP transceivers   OR
Fix F/O transceiver:
Dual fiber (SC or ST connectors, MM range 0-2Km; SM rang 0-100Km):
      Multimode (MM) 1310nm
      Singlemode (SM) 1310/1550nm
Single fiber (dual wavelength, range 0-50Km) :
      SF-A (TX 1550nm; RX 1310nm) (SC)
      SF-B (TX 1310nm; RX 1550nm) (SC)

LED Indicators (Green color)
POWER   - Power "ON" indication
LINK/ACT - Link/Activity indication, LED per port
FDX   - Full duplex operation, LED per port
FEFI   - FEF pattern received on F/O port, fiber por only
100M   - 100M port lock, copper port only

Special feature Indications (Orange color)
Loop-Back status and results (orange color on local TP LEDs)
Remote TP Status Indicators(orange color on local TP LEDs)

Setup Options (via external DIP switch)
Converter/port(s): A/N or Manual (force) mod; 10M or 100M speed;
                 FDX/HDX (Full/Half duplex); FC (flow control) ON/OFF;
Link Verification: PONL (Propagation Of No Link) ON/OFF
                 L.B. (Loop Back) ON/OFF
                 RTPSI (Remote TP Status Indications) ON/OFF

Technology
Two, automatic operation modes: transparent converter that supports any frame size, including Jumbo frames, if the copper port lock on 100M wth his link partner, and dual speed 10/100M switch based converter if the copper port locks on 10M with his link partner, maximum frame size is 1600 bytes (large VLAN frames).

Standard Compliance
IEEE802.3i, 802.3u, 802.3x

Environment

	Standard	ETR
Operating Temp (°C):	0 to +45	0 to +60
Operating Temp (°F):	32 to 113	32 to 140

Storage: -40 to +85°C (-40 to 185°F)
Humidity: 10% to 90% non-condensing

Safety and Emission
CE, FCC part 15, EN60950

Power
External wide-range switching power adaptor (EPS)
AC input: 90 - 264 VAC 50/60Hz (14-21 Watts max.)
DC output: 5VDC 2-3 Amp regulated, polarity:

+5V-

Module Dimension	Length	Width	Height
WL-240	104mm(4.1")	76.5mm(3.0")	26.5mm(1.05")
WL-240/.../FP	190mm(7.5")	96mm(3.8")	26.5mm(1.05")

Ordering Information
WL-240/__/__/__ 10/100Base-T to 100Base-FX A/N supper converter ([fiber type], [connector type], [option], inc. EPS

Ordering terminology
WL-240/[fiber type]/[connector type]/[options]

M= Multimode, 1310nm, 11dB, 0-2Km
S= Singlemode, 1310nm, 30dB, 0-30Km
S1= Singlemode, 1310nm, 34dB, 10-50Km
S2= Singlemode, 1550nm, 34dB, 40-100Km
SF-A/S*= Single Fiber, TX 1550nm RX 1310nm, 18dB, 0-20Km
SF-B/S*= Single Fiber, TX 1310nm RX 1550nm, 18dB, 0-20Km
SF-A/S1*= Single Fiber, TX 1550nm RX 1310nm, 30dB, 10-50Km
SF-B/S1*= Single Fiber, TX 1310nm RX 1550nm, 30dB, 10-50Km
   * Single fiber dual wavelength, connects in pairs: SF type A connects to SF type B
  SFP= SFP (open) cage for 100M SFP transceiver. It is recommended to use WizLAN approved SFP transceivers.

SC
ST
( ) if SFP

[ ] - Standard Temp. 0°C to +45°C
FP - Standard Temp. Fiber Protector
ETR - Extended Temp. 0°C to +60°C
ETR/FP - Extended Temp. Fiber Protector

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

Example: **WL-240/S/S/SC/ETR** 10/100Base-T to 100BaseFX A/N super converter, SM FO (1310nm, 18dB, 0-30Km, SC), inc. EPS