

**WizLAN** Ltd.

## 10/100BaseT/TX to 100BaseFX Redundant Converter



**Wiz**lite



# WL-221

A Wiz-lite Product

- 10/100Base-TX to 100Base-FX fully redundant converter
- Dual copper, dual fiber any-to-any redundancy
- Fast redundancy switching time
- Compact size desktop and wall mount
- A/N or manual setting of speed and duplex
- MM up to 6Km; SM up to 100Km; Single Fiber up to 50Km
- Far-end-Fault (FEF) detection (enable/disable)
- Power Failure Notification (PFN) - optional
- Flow-control and jumbo frames support
- Auto MDI/MDI-X crossover

The WL-221 stand-alone unit provides fully redundant copper to fiber media conversion in compliance with IEEE 802.3 Ethernet standards.

**Safeguarding mission critical links.** WL-221 is the ideal tool for network managers concerned with network availability, session integrity and uptime. Its compact design simplifies the implementation of redundant conversion into existing infrastructures.

**Any-to-any redundant converter support.** Any combination of point-to-point or dual-point redundancy on both the fiber and copper links is provided via two dual speed 10/100M twisted pair ports and two 100M fiber optic ports. Since only one link is active at any one time, there is no interference with the Spanning Tree Protocol.

**Unique transparent switching technology.** MAC address transparency supplied with the benefits of Ethernet speed conversion, fault isolation and network extension capabilities.

**Increases fiber utilization.** Dual-wavelength Single Fiber models double fiber utilization through full-duplex transmissions on a single SM fiber.

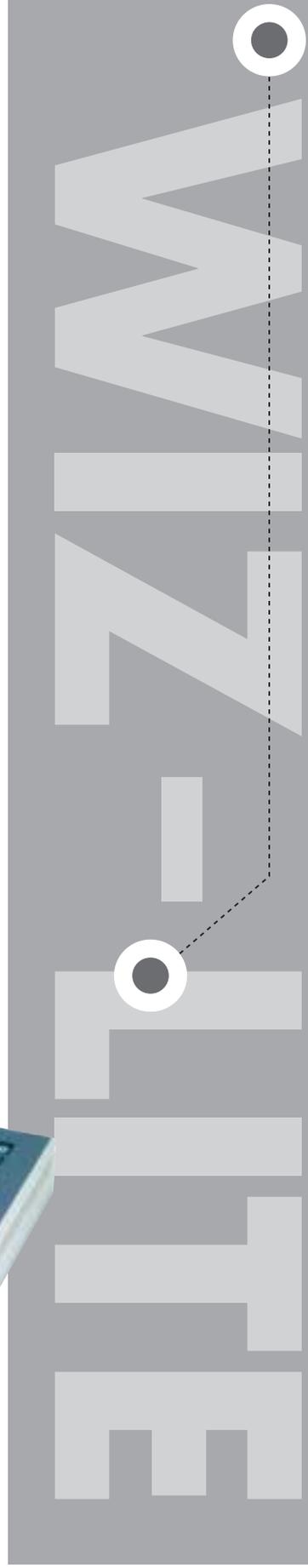
**Power Failure Notification (PFN) option.** In-band power change notification transmitted to the F/O link partner (supporting PFN) upon sensing power drop/rise.

Improves network serviceability by enabling identification of power failures at the remote ends.

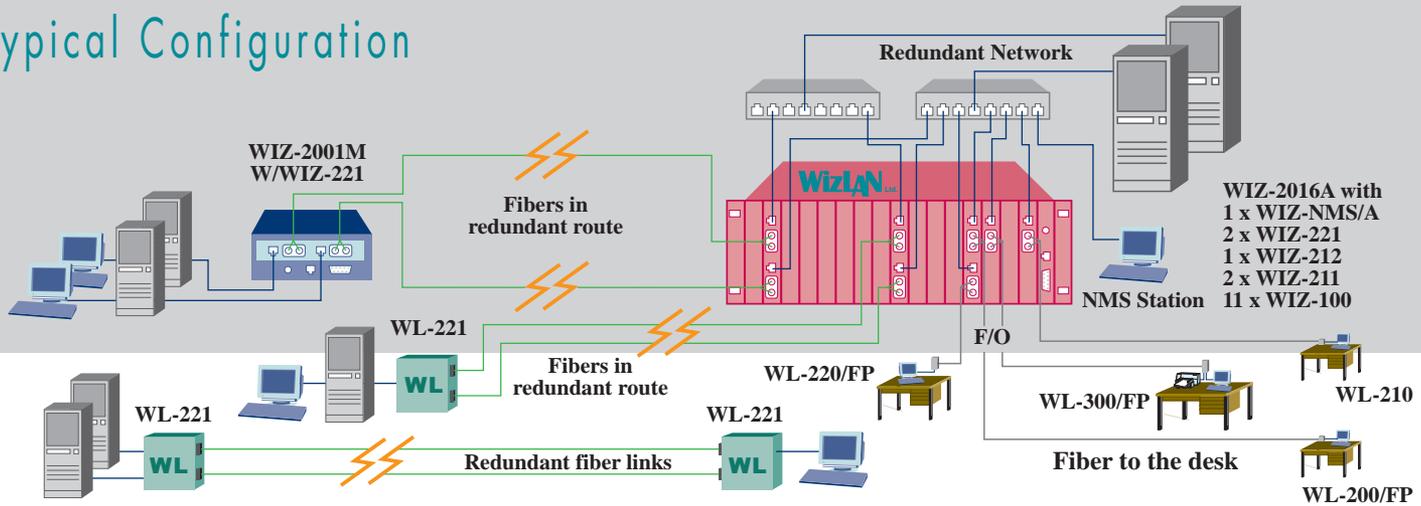
**Enhanced LEDs.** Highly visible indicators showing link and operational status.



**WizLAN** Ltd. **Simply Unbeatable**



# Typical Configuration



## Technical Specifications

WL-221 - "Any to Any" Redundant Converter, 10/100BaseT/TX to 100BaseFX

### 10/100BaseT/TX Ports

10/100BaseT/TX RJ-45 auto-MDI/MDI-X  
A/N or manual setting (speed and HDX/FDX)  
100 meter (330 ft) distance over UTP/STP

### LED Indicators (per port)

Active - currently activity port  
FDX/Col - Full-Duplex / Collision indication  
100M - 100M speed indication  
Link/Act - Link/Activity indication

**Power Indicator** Power supplied to the unit (+5VDC Reg.)

### Technology

Transparent switching technology  
Redundancy switching time - less than 80ms

### Special Features

"Any to Any" fully redundant dual speed converter  
Transparent switching technology  
Jumbo frames (up to 1916 bytes)  
Force Flow Control on FDX ports  
Auto MDI/MDI-X crossover  
Single Fiber support

### Special Link Verification Functions

Far-end-Fault (FEF) detection on fiber ports (on/off)  
Power Failure Notification (PFN) - option

### Standard Compliance

IEEE802.3u 10Base Ethernet/100Base Fast Ethernet  
IEEE802.3 Auto-negotiation

### Ordering Information

**WL-221M/[x]** Redundant 10/100BaseT/TX to 100BaseFX enhanced converter 2x RJ45, 2xF/O (MM, 1310nm, 0-6Km,[x])  
**WL-221[Sn]/[x]** Redundant 10/100BaseT/TX to 100BaseFX enhanced converter 2x RJ45, 2xF/O (SM, [Sn],[x])  
**WL-221/SF/[Sn]/[x]†** Redundant 10/100BaseT/TX to 100BaseFX enhanced converter 2x RJ45, 2xF/O (SM, Single Fiber,[Sn],[x])  
**WL-221/-/-/-/P** PFN (Power Failure Notification) add-on feature

**NOTE:** For other F/O interfaces, please contact WizLAN Sales.

M	Multimode 1310nm 0-6Km	[x]= Type of F/O connector: ST, SC, VF-45, MT-RJ, or LC
[Sn]=S	Singlemode 1310nm, 18 dB, 0-30Km	[x]= Type of F/O connector: SC, ST, MT-RJ, LC
[Sn]=S1	Singlemode 1310nm, 30dB, 10-50Km	[x]= Type of F/O connector: SC, ST, LC
[Sn]=S2	Singlemode 1550nm, 34dB, 40-100Km	[x]= Type of F/O connector: SC, LC
†Single Fiber (dual wavelength, works in pairs). type A: TX-1550nm and RX-1310nm, type-B: TX-1310nm and RX-1550nm		
SF-A/[Sn]=S	Single Fiber SM A-1550/1310nm, 18dB, 0-20Km	[x]= Type of F/O connector: SC
SF-B/[Sn]=S	Single Fiber SM B-1310/1550nm, 18dB, 0-20Km	[x]= Type of F/O connector: SC
SF-A/[Sn]=S1	Single Fiber SM A-1550/1310nm, 31dB, 10-50Km	[x]= Type of F/O connector: SC
SF-B/[Sn]=S1	Single Fiber SM B-1310/1550nm, 31dB, 10-50Km	[x]= Type of F/O connector: SC

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.

### 100BaseFX Port(s)

#### Interface:

Multimode(MM)	1310nm	SC, ST, MT-RJ, VF-45, LC
Singlemode(SM)	1310nm	SC, ST, MT-RJ, LC
Singlemode(SM)	1550nm	SC, LC

#### Distance/ Power Budget:

Multimode (MM)	62.5/125µ	6Km/11dB		
Singlemode (SM)	9/125µ	30km	50Km	100km (1550mm)
		18dB	30dB	34dB
Single Fiber (SF)	9/125µ	20Km	50Km	
		18dB	31dB	

### Power Requirements

Input 5VDC 1A regulated  
Jack Polarity



### Power Adapter (EPS)

External AC to DC wall mount adapter (supplied with the unit)  
AC Input 90 - 264VAC 50/60Hz  
DC Output 5 VDC 1A or 2A regulated (switching PS)

### Module Dimensions

H: 29mm (1.15") x W: 146mm (5.75") x D: 124mm (4.9")

**Safety & Emissions** CE, FCC Part 15, EN60950

### Environment

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



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