



10/100BaseT/TX to 100BaseFX
Fully Manageable Redundant Converter



WIZ-221

A Media Wizard Module

- 10/100Base-TX to 100Base-FX fully redundant converter
- Dual copper, dual fiber any-to-any redundancy
- Fast redundancy switching time
- Full SNMP management (and manual setup)
- 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
- Rate-limit, flow-control and jumbo frames support
- In-band management support
- Auto MDI/MDI-X crossover
- Hot-swappable slot-independent slide-in module

WIZ-221 slide-in module provides fully redundant copper to fiber media conversion in compliance with IEEE 802.3 Ethernet standards.

Safeguarding mission critical fiber optic links. WIZ-221 is the ideal tool for network managers concerned with network availability, session integrity and uptime.

Any-to-any redundant conversion. WIZ-221 supports two dual speed 10/100M twisted pair ports and two 100M fiber optic ports, enabling any combination of point-to-point or dual-point redundancy on both the fiber and copper links. Since only one link is active at any one time, there is no interference with the Spanning Tree Protocol.

Enhanced management capabilities. Port setup that includes open/close port, speed, duplex, FEF, rate limit, redundancy, user assigned names and detailed port description; link status and traffic monitoring.

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

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

In-band management support. Provides a backplane connection for Media Wizard in-band management.

Power Failure Notification (PFN) option. In-band power change notification transmitted to the F/O link partner (supporting PFN) upon sensing a power drop/rise. Improves network serviceability by enabling identification of power failures at the remote sites.

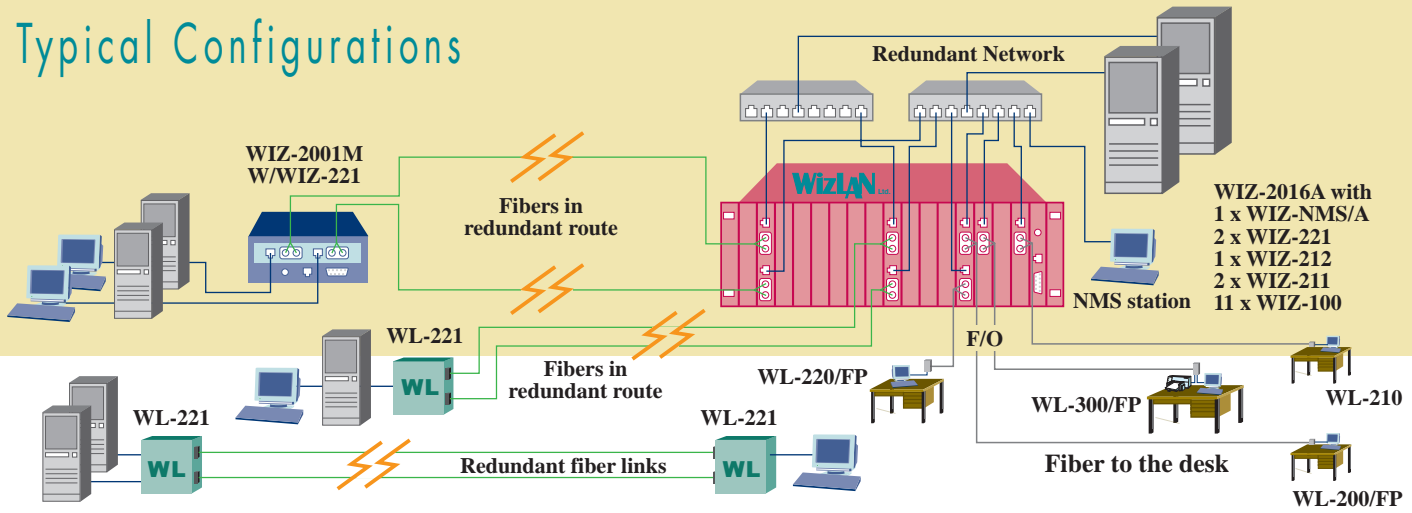
Enhanced LEDs. Indicators showing link and operational status.



MEDIA WIZARD

WizLAN Ltd. **Simply Unbeatable**

Typical Configurations



Technical Specifications

WIZ-221 - Fully Manageable Redundant Converter Module, 10/100BaseT/TX to 100BaseFX

10/100BaseT/TX Port(s)

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

LED Indicators (each RJ-45 and Fiber port)

Link/Act - link/activity indication
100M - 100M speed indication
FDX/Col - Full-Duplex / Collision indication LN/AC
Oper - operational / standby port

Technology

Transparent/fast switching technology
Redundancy switching time - less than 80ms

Special Features

"Any to Any" fully redundant dual speed converter
Full SNMP management / manual setup
Transparent switching technology
Jumbo frames (up to 1916 bytes)
Force Flow Control on FDX ports
Auto MDI/MDI-X crossover
Single Fiber support
In-band management support
Open/close port, rate-limit (mng only)

Special Link Verification Functions

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

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

Standard Compliance

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

Safety and Emissions:

CE, FCC Part 15, EN60950

Power Consumption (installed in Media Wizard chassis):

DC Power Consumption (PU) WIZ-221 - 1.4PU
(Power Units per module)

Module Dimensions

H: 130mm (5.1") x W: 25.4mm (1") x D: 140mm (5.5")

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

Ordering Information

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

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

Terminology

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.