

**WizLAN** Ltd.

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



**Wiz**lite



# WL-220

A Wiz-lite Product

- 10/100M auto-negotiation/manual enhanced converter
- Compact size desktop and wall mount converter
- Unique version for F/O protected mounting
- Link verification functions: FEF and PONL
- RJ-45 STP/UTP support
- MDI-II / MDI-X RJ-45 ports
- MM up to 6Km; SM up to 100Km; Single Fiber up to 50Km
- Available with SC, ST, MT-RJ, VF-45 or LC connectors
- Enhanced LED indicators

The WL-220 is a stand-alone fiber optic (F/O) Enhanced converter providing conversion from 10/100BaseT/TX copper media (RJ-45) to 100BaseFX fiber media in compliance with IEEE 802.3 standards.

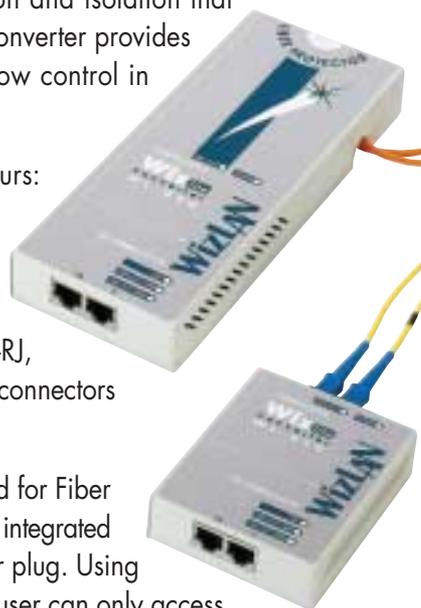
With the advantage of auto-negotiation or manual speed and HDX/FDX selection on the TP port, and a multimode or singlemode (dual or single fiber) interfaces on the F/O port the WL-220 provides utmost flexibility and efficiency for Ethernet / Fast Ethernet conversions.

The WL-220 incorporates fast switching technology, which allows 10/100M speed conversion as well as the advantages of network segmentation and isolation that extends the network span and improves its performance. The converter provides full wire speed forwarding and filtering rates and supports flow control in HDX and FDX modes.

The WL-220 is equipped with enhanced link verification features: Far-End-Fault (FEF) and Propagation of No Link (PONL) that provide plug & play installation, operation and link management capabilities.

The F/O port is available with multimode (MM) SC, ST, MT-RJ, VF-45 or LC connectors or singlemode (SM) SC, ST, MT-RJ or LC connectors for distances up-to 100Km and 50Km on Single Fiber.

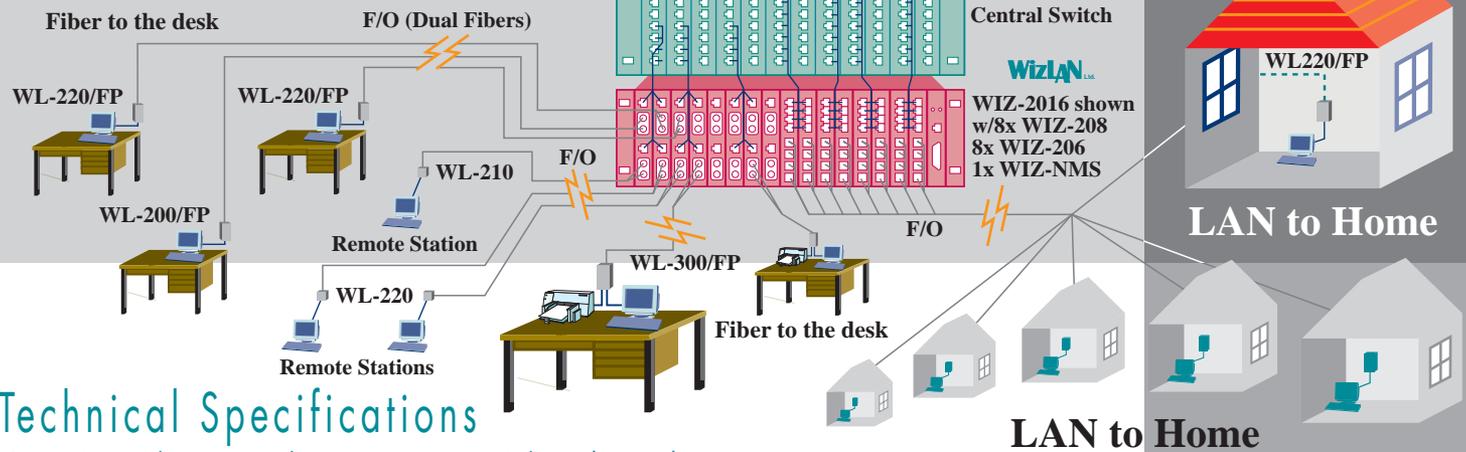
WL-220/FP, for F/O Protected mounting, was specially designed for Fiber to the Desk and LAN to Home applications. This model includes an integrated F/O tray and cover that protects the F/O connection and power plug. Using the WL-220/FP the fiber and power jack are protected and the user can only access the TX port.



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# Typical Configuration



# Technical Specifications

WL-220 - 10/100BaseT/TX to 100BaseFX A/N Enhanced Converter

## 10/100BaseT/TX Port

10/100BaseT/TX auto-negotiation (A/N)
Manual settings: A/N, 10M or 100M, HDX or FDX
MDI-X / MDI-II RJ-45 connectors
100 meter (330 ft) distance over UTP/STP cable

## Special Features

Far-End-Fault (FEF) detection, on FX port
Propagation of No Link (PONL)
10/100M & HDX/FDX auto-negotiation or manual modes

## Standards Compliance

IEEE802.3 - Ethernet, Fast Ethernet, auto-negotiation
IEEE802.3x - full duplex flow control

## LED Indicators

DC Power	<ul style="list-style-type: none"> <li>POWER</li> </ul>
10/100BaseT/TX port	<ul style="list-style-type: none"> <li>100M LINK/ACT - 100M Link /Activity</li> <li>10M LINK/ACT - 10M Link /Activity</li> <li>COL - Collision detected on the port</li> </ul>
100BaseFX port	<ul style="list-style-type: none"> <li>LINK/ACT - Link / Activity</li> </ul>

## Dimensions

	Width	Length	Height
WL-220	76mm/3"	97mm/4"	27mm/1.1"
WL-220/FP	97mm/3.8"	191mm/7.5"	27mm/1.1"

## Conversion Method

Wire speed switching technology (frames up to 1536 bytes)
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## Ordering Information\*

WL-220M/[x]	Stand-alone 10/100BaseT/TX to 100BaseFX A/N enhanced converter, MM F/O (1310nm,0-6Km,[x]), incl. EPS
WL-220[Sn]/[x]	Stand-alone 10/100BaseT/TX to 100BaseFX A/N enhanced converter, SM F/O ([Sn],[x]), incl. EPS
WL-220M/[x]/FP	Stand-alone 10/100BaseT/TX to 100BaseFX A/N enhanced converter, MM F/O (1310nm,0-6Km,[x]), for Fiber Protected mounting, incl. EPS
WL-220[Sn]/[x]/FP	Stand-alone 10/100BaseT/TX to 100BaseFX A/N enhanced converter, SM F/O ([Sn],[x]), for Fiber Protected mounting, incl. EPS

M	Multimode 1310nm, 11dB, 0-6Km	[x]= Type of F/O connector: SC, ST, VF-45, MT-RJ or LC
[Sn]=S	Singlemode 1310nm, 18dB, 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
[Sn]=S2	Singlemode 1550nm, 34dB, 40-100Km	[x]= Type of F/O connector: SC

\* For other connectors, distances and Single Fiber (SF) units please contact WizLAN representative

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.



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Rev.02

## 100BaseFX port

• Interface			
Multimode	1310nm	SC, ST, MT-RJ, VF-45, LC	
Singlemode	1310nm	SC, ST, MT-RJ, LC	
	1550nm	SC	
• Distance/Optical Power Budget			
Multimode	62.5/125µ	6Km/11dB	
Singlemode	9/125µ	30km 50Km 100Km	
		18dB 30dB 34dB (1550)	

## Power Requirements

Input	5VDC 1A regulated
Jack polarity	+5V -

## Power Adapter (EPS)

External AC/DC wall mount adapter (supplied)			
AC Input	90 - 264VAC	0.05-0.1A	50/60Hz
DC Output	5 VDC	1A or 2A regulated (switching PS)	
Jack Polarity	+5V -		

## Safety & Emissions

CE, FCC Part 15, EN60950
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## Environment

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