WizLAN Ltd.

Managed Converter
10/100BaseT to 100BaseFX

WLM-220

A Wiz-Lite-Managed Product

- Fully managed dual speed converter
- Isolated out-of-band management port
- 10/100BaseT RJ45, A/N or manual, auto crossover
- 100BaseFX port supporting multimode or singlemode (dual or single fiber) with a variety of F/O connectors
- Enhanced port/converter settings including on/off, MDI/X, speed, duplex, flow control, rate limit, learning/aging, PONL, FEF as well as 802.1Q VLAN for MNGT access, RMON counters etc.
- Embedded management agent (fixed IP or DHCP) with highly secured in/out-of-band access supporting SNMP, Telnet or Web management
- In/out of band management via WizLAN's enhanced WIZ-View/A EMS application, Telnet or Web based
- Unique test utility for network connectivity
- Port monitoring function - optional
- Optional version for F/O protected mounting
- Available with Internal or External power supply
- Desktop or wall mounting

Preliminary

The WLM-220 is a fully managed dual-speed stand-alone converter with unique in/out of band secured management capabilities. Based on state-of-the-art technology, industrial grade components and compact design, the WLM-220 is a perfect fit for enterprise and Telco F/O managed networks.

WLM-220 is available with a choice of Internal PS (AC or DC); External PS (AC) or FP - Fiber Protector versions. The unique FP version best suits FTTX installations protecting the incoming fiber and power jack while keeping only the RJ-45 port exposed for user's access.

The WLM-220 includes embedded SNMP agent with full capability cross platform Java Web based EMS and Telnet support. The unique out-of-band MNGT port and MNGT VLAN option, enables to isolate the management while maintaining secured and transparent conversion services. Enhanced security for management access is provided by passwords, IP access list, 802.1Q VLAN and path control options.

The management provides control of all ports / converter parameters, including learning/aging, rate limit, flow control and link verification features like PONL and FEF, as well as monitoring, RMON statistics and remote firmware updates.

Although fully managed, the WLM-220 is a Plug & Play device. The initial IP/DHCP settings done via local CLI (RS232) connection or through the Infra-red link via PALM application, while special configurations, if required different from the factory defaults, done using the intuitive self-explanatory Wiz-View/A or Web GUI, or through Telnet. Unique access/network connectivity tester is available through CLI (RS232), PALM. This test utility is very useful and efficient upon installation, service and maintenance.

Per port LED indicators provides high visibility of port status and converter activity in both desktop and wall mount installations.

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WIZ-LITE-MANAGED

10/100BaseT ports (converter and out-band ports)

10/100BaseT RJ-45 auto/manual MDI crossover (manageable)
A/N or manual (speed HDX/FDX) Via management
100 meter (330 ft) distance over UTP/STP

LED Indicators

POWER   - Power indication
Link/Activity   – Link / Activity indication, LED per port
100Mbps   - 100Mbps speed indication, LED per port
FDX/Collision - Full duplex / Collision indication, LED per port

Technology

Store & forward non-blocking fast switching technology
Manageable learning and aging (enables transparency and low latency)
Maximum frame size: 1536 bytes
Address table: 2,048 MAC addresses
MNGT Agent: Embedded SNMP agent, Web server - Java Web based EMS and Telnet support

Management Options

Fully manageable via SNMP, Web and Telnet
Management access: in-band and out-band
Access security: Passwords, IP access list, 802.1Q VLAN, Secure NMS path control

Initial Configuration

Via RS-232 CLI local connection (RJ-11), using a specific cable available from WizLAN

Via Infra-red using PALM application, provided by WizLAN

Network test utility

Available on CLI (RS-232), PALM (Infra-red) and Telnet

Standard Compliance

IEEE802.3, 802.3U, 802.3x, 802.1Q, 802.1p

100BaseFX Uplink Port

Interface (duplex fiber):
   Multimode (MM), 1310nm   Connectors: SC, ST, LC, VF-45, MT-RJ
   Singlemode (SM), 1310/1550nm Connectors: SC, ST, LC
Distance / power budget:
   Multimode (MM 62.5/125μ)   6Km / 11dB
   Singlemode (SM 9/125μ)   30Km/18dB, 50Km/30dB, 100Km/34dB
   Single Fiber (SM, SF dual wavelength)   20Km/18dB, 50Km/31dB

F/O Link Verification Functions

Far-End-Fault (FEF) detection on fiber port (manageable)
Single/Bi Directional PONL (Propagation Of No Link)

Power

- IPS version: Internal wide-range Power Supply (IPS)
  AC input: 90-264VAC 50/60Hz (14W max.). DC options available
- EPS version: External wide-range power adaptor (EPS):
  AC input: 90 - 264 VAC 50/60Hz (14W max.)
  DC output: 5VDC 2Amp. Regulated

Safety and Emissions

CE, FCC Part 15, EN60950

Module Dimensions

Module Dimensions	Width	Height	Depth
WLM-220/__/__/EPS	150mm(5.9")	31mm(1.3"))	91mm(3.6")
WLM-220/__/__/IPS	150mm(5.9")	36mm(1.43")	169mm(6.7")
WLM-220/__/__/FP	150mm(5.9")	36mm(1.43")	183mm(7.2")

Environment

Operating: 0 to 45°C (32 to 113°F) Environment Temperature
Storage: -30 to 65°C (-22 to 149°F)
Humidity: 10% to 90% non-condensing
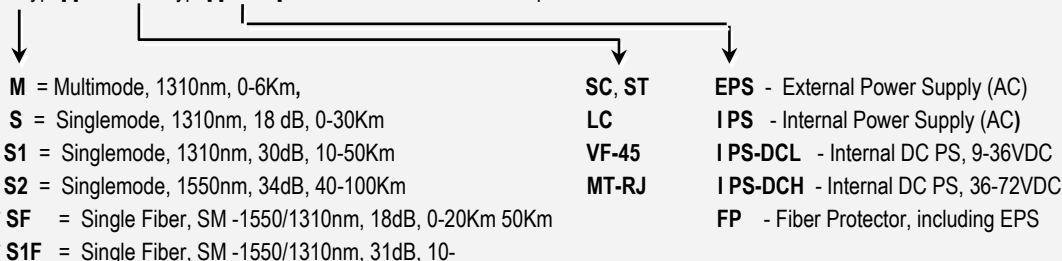
Special Option

Port Monitoring (SW feature added separately)

Ordering Information

WLM-220/__/__/__   Fully managed dual speed converter. One port 10/100BaseT, one 100BaseFX port ([Uplink Type], [connector type]), [model: either IPS, EPS or Fiber Protector (FP)]. Inc. 10/100BaseT out-band port.

Ordering terminology:

WLM-220 /[Uplink type]/[connector type]/[model]. Inc. 10/100BaseT out-band port.

M = Multimode, 1310nm, 0-6Km,	**SC, ST**	**EPS** - External Power Supply (AC)
S = Singlemode, 1310nm, 18 dB, 0-30Km	**LC**	**I PS** - Internal Power Supply (AC)
S1 = Singlemode, 1310nm, 30dB, 10-50Km	**VF-45**	**I PS-DCL** - Internal DC PS, 9-36VDC
S2 = Singlemode, 1550nm, 34dB, 40-100Km	**MT-RJ**	**I PS-DCH** - Internal DC PS, 36-72VDC
* SF = Single Fiber, SM -1550/1310nm, 18dB, 0-20Km 50Km		**FP** - Fiber Protector, including EPS
* S1F = Single Fiber, SM -1550/1310nm, 31dB, 10-		

* Single Fiber (dual wavelength, works in pairs): type A: TX-1550nm and RX-1310nm   connects to type B: TX-1310nm and RX-1550nm.

Example: **WLM-220/S/SC/FP**   Fully managed dual speed converter. One port 10/100BaseT, one 100BaseFX port (singlemode 1310nm, 18dB, 30Km, SC). Fiber Protector with EPS. Inc. 10/100BaseT out-band port.

Accessories:

WLM-CLI Cable Special CLI (RS-232) cable for Wiz-Lite Managed product line. RJ-11 - DB9 cable optionally used for initial device configuration.