



WM-616

A Wiz-Metro Product

- Fully managed telco-grade F/O Gigabit repeater and F/O mode converter, 1000Base-X to 1000Base-X
- Highly reliable 3R technology (Retiming, Reshaping and Regeneration)
- Unique isolation between customer's data and provider's management
- Isolated out-of-band (OOB) management port and highly secured in/out of band management access from WizLAN's Wiz-View/A EMS application, Telnet or Web browser
- Traffic monitoring port for special applications (optional)
- One isolated "dry contact" input for sensor/alarms, and one activation "dry" output (optional)
- Enhanced port/converter setting including mode, flow control, rate limit, learning/aging, as well as MNGT access security, RMON counters etc.
- Internal AC or DC power supply options
- Desktop and rack mount installation (1U)



WM-616 is a fully managed Telco-grade Gigabit fiber optic repeater specially designed for Telcos, Service Providers and special mission critical applications that require distance extension and fiber optic mode conversion (MM to SM).

The WM-616 unique features and options, enables complete isolation between the customer data and the management of the device/link (using the dedicated OOB management port), traffic monitoring port (optional) for special backup, analysis and recording applications, as well as dry contacts input and output (optional) that enables to transmit alerts (such as cabinet open) and remotely activate local output.

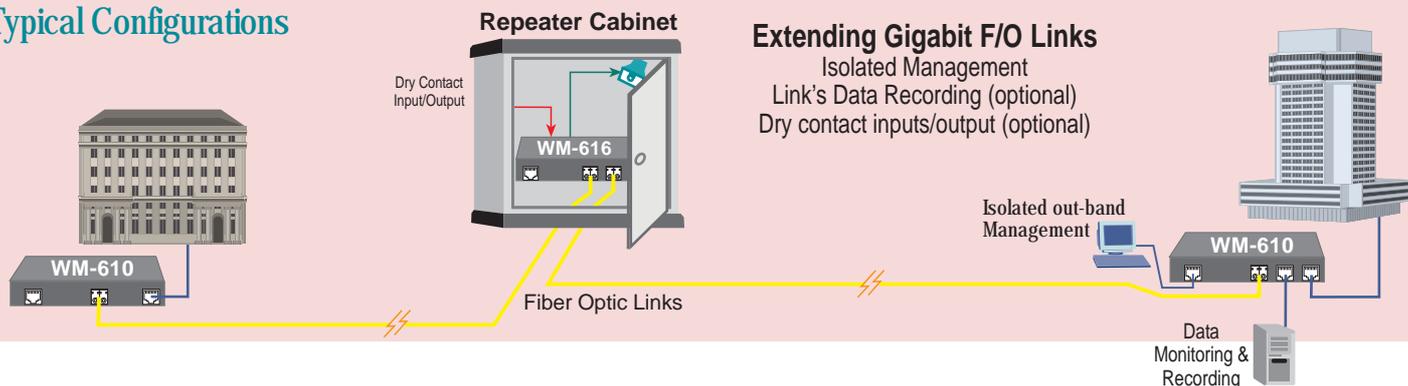
WM-616 offers large variety of F/O interfaces (SFP and SC) for multimode, singlemode and single-fiber links, and are available with a choice of internal AC or DC power supplies, for desktop or 19" rack mounting using a 19" tray accessory.

Based on state-of-the-art high speed non blocking switching technology, the WM-616 implements 3R repeating technology (Retiming, Reshaping and Regeneration) providing highly reliable data transfer over extended fiber optic links. Equipped with advanced features and options, it provides complete user/service isolation, access control, link and bandwidth management as required for advanced link/carrier services.

WM-616 includes embedded SNMP agent (fixed IP or DHCP) and full capability cross platform Java Web based EMS providing three levels of management access security (open mode, VLAN security and full security) as well as IP white list, radius authentication and access path for all remote managers: SNMP, Telnet and Web. The management provides control and monitoring of all converter parameters, features, functions (including dry contacts), hardware and environment as well as remote upgrade capabilities.



Typical Configurations



Technical Specifications

WM-616 - Fully managed Gigabit Repeater

WM-616: 1000BaseX and 1000BaseX repeater ports
10/100BaseT Out-of-Band (OOB) port
10/100/1000BaseT monitor port (optional)
Dry contacts 4x inputs and 1x output (optional)

1000BaseX F/O port(s):

Multimode (MM), 850nm Connectors: SFP, SC

Singlemode (SM), 1310/1550nm Connectors: SFP, SC

Distance / power budget:

Multimode (MM 62.5/125, 50/125) 220/550m / 8dB

Singlemode (SM 9/125) 10Km/10dB, 20Km/17dB (1310nm)
50Km/17dB, 70Km/24dB (1550nm)

Single Fiber (SM, SF dual wavelength) 10Km/12dB
20Km/17dB
40Km/20dB

10/100M Out-of-Band (OOB) Management port:

10/100/1000BaseT RJ-45 auto-MDI and polarity Auto Negotiation

100 meter (330 ft) distance over UTP/STP

10/100/1000BaseT Monitor Copper port (Option):

10/100/1000BaseT RJ-45 auto-MDI and polarity Auto Negotiation

100 meter (330 ft) distance over TP cables Cat5, 5e and 6

Dry Contact inputs/output (Option):

One isolated dry contact inputs for sensor/alert (operated via isolated 5VDC supplied by the WM-61x).

One isolated dry contact control output, capable of 250V DC or AC peak 120mA.

LED Indications:

POWER - Power ON indication

NMS - Management agent active

Link/Act - Link/Activity (per port)

Circuit In - Dry contact - short on input (only with Dry contact option)

Circuit out - Control output "ON" (only with Dry contact option)

Power:

AC input Internal power supply: 90-264VAC 50/60Hz

DC input Internal power supply: DCL input - 9 to 36VDC
DCH input - 36 to 72 VDC

Extending Gigabit F/O Links

Isolated Management

Link's Data Recording (optional)

Dry contact inputs/output (optional)

Isolated out-band
Management

Data
Monitoring &
Recording

Technology:

Store & forward non-blocking high-speed switching technology

Maximum frame size: 1632 bytes

Frame buffer memory: 1Mbit

Address table: 8K MAC addresses

learning and aging (controlled via NMS)

MNGT Agent: Embedded SNMP agent, Web server - Java Web based EMS and Telnet

Network Access Control:

QoS: four traffic class queues IPv4 Type of Service (TOS) or Differentiated Services (Diff Serv), IPv6 traffic Class

Management Options:

Fully manageable remotely via SNMP, Web and Telnet

Management Access Security:

Three levels of management access security:

- Open mode: standard access

- VLAN security mode: assigning specific VLAN ID for management traffic

- Full security mode: complete isolation between data and management

Additional access security means:

IP access list (white list); Radius authentication for remote Web management; Access path; Three login levels, password protected; SNMP community string

Initial Configuration:

Initial IP configuration via Wiz-Init remote application

Standards Compliance:

IEEE802.3, 802.3ab, 802.3U, 802.3x, 802.1Q, 802.1p, 802.1d/w, 802.1X

RMON: RFC2819 (supercedes 1757 and 1217) Ethernet statistic group

Safety and Emission Standards:

CE, FCC Part 15, EN60950

Module Dimensions:

Width	Height	Depth
220mm(8.7")	44mm(1.75")	190mm(7.5")

Environment:

Operating Temp.: 0° to 55°C (32° to 131°F)

Storage: -30° to 70°C (-22° to 149°F)

Humidity: 10% to 90% non-condensing

Ordering Information: For ordering Information Please Contact your 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.

WizLAN

Ltd. P.O. Box 7948, Haifa 31078, Israel e-mail: sales@wizlan.com http://www.wizlan.com Tel: +972-4-857-2199 Fax: +972-4-857-2204

Rev.02