

# WIZ-114/5/6

## Media Wizard Modules

- Modular and standalone versions
- Transparent MM to SM media conversion
- Available for: Fast Ethernet, FDDI, ATM(155M)/OC-3/STM-1, ATM(622M)/OC-12/STM-4, Gigabit Ethernet (SX to LX)
- Single Fiber (SF) versions
- Up to 100Km on dual fibers, and 80Km on single fiber
- Status LED indicators
- Manageable

WizLAN's fiber optic multimode to singlemode converters provide transparent media conversion from multimode 850/1300nm to singlemode 1300nm/1550nm. The converters re-generate the signals received by one media and transmit them over to the other media providing the optical gain required to support the distance.

The multimode to singlemode converters enable to extend the span of the networks over distances of up to 100Km using existing or new singlemode fiber-optic cables. Single fiber (SF) versions are available for special installations releasing/saving expensive fibers and doubling the fiber utilization.

The Single Fiber (SF) modules are based on dual wavelength WDM technology that enables full duplex transmissions on a single SM fiber. The SF modules connect in pairs, SF type-A (TX-1550nm, RX-1300nm) module connected via a single fiber to SF type-B (TX-1300nm, RX-1550nm) module. The dual wavelength SF converters provide better link performance and isolation and don't require APC polish on the connectors and jumpers.

Dual fiber multimode to singlemode converters:

WIZ-114, for Fast Ethernet, FDDI and ATM(155M)/OC-3/STM-1 up-to 100Km

WIZ-115, for Gigabit Ethernet, SX to LX up-to 10Km

WIZ-116, for ATM(622M)/OC-12/STM-4 up-to 60Km

Single fiber multimode to single singlemode converters:

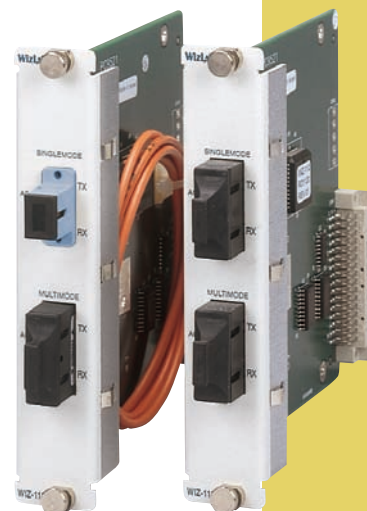
WIZ-114/SF, for Fast Ethernet, FDDI and ATM(155M)/OC-3/STM-1 up-to 80Km

WIZ-115/SF, for Gigabit Ethernet, SX to LX up-to 50Km

WIZ-116/SF, for ATM(622M)/OC-12/STM-4 up-to 60Km

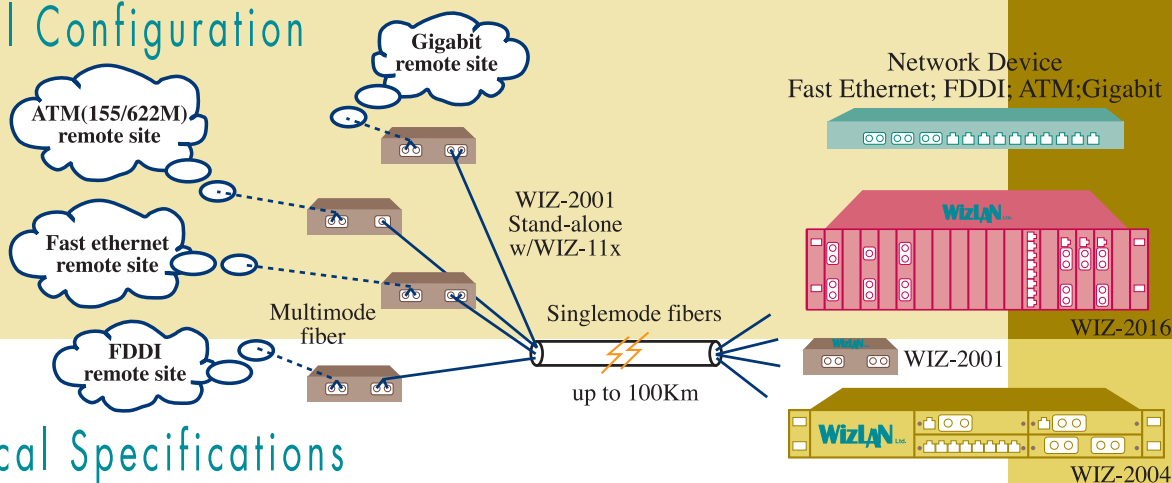
Different range/connectors are available upon request.

To maximize efficiency and minimize installation costs, the converters can be installed in the Media-Wizard 16 or 4 slot chassis, saving rack space and main outlets, simplifying the service and maintenance. Both chassis include as an option a redundant power supply and central management. The converters can also be installed in the Media-Wizard stand-alone chassis, equipped with an internal wide range AC or DC power supply.



# MEDIA WIZARD

# Typical Configuration



## Technical Specifications

WIZ-114/5/6- Multimode to Singlemode Converters for

Fast Ethernet, FDDI, ATM(155M/OC-3/STM-1, Gigabit Ethernet, ATM(622M)/OC-12/STM-4.

### Multimode port (62.5/125µm)

<b>WIZ-114 (Dual MM Fiber)</b> , 100-155Mbps rates
Wavelength (nm): 1300
Power Budget (dB): 11
Distance (Km): 2
<b>WIZ-115 (Dual MM Fiber)</b> , Gigabit Ethernet
Wavelength (nm): 850nm VCSEL
Power Budget (dB): 5
Distance (over MMF): 220m w/62.5µ 550m w/50µ
<b>WIZ-116 (Dual MM Fiber)</b> , ATM622/OC-12/STM-4
Wavelength (nm): 1300
Power Budget (dB): 7
Distance (m): 500

### LED Indicators

Singlemode	ACT (link+receive activity)
Multimode	ACT (link+receive activity)

### Conversion Method

Physical layer converter
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### Physical Dimensions (of the module)

Height	Width	Depth
130mm (5.1")	25.1mm (1")	140mm (5.5")

### Environment

	°C	°F
Operating Temperature	0 to 45	32 to 113
Storage Temperature	-30 to 65	-22 to 149
Humidity	10 to 90% non-condensing	

### Singlemode port (9/125µm)

<b>WIZ-114/6 (dual SM fiber)</b> , 100-155/622 Mbps rates				
Wavelength (nm):	1300	1300	1300	1550
Power Budget (dB):	11	21	30	32
Distance (km):	0-20	10-40	30-60	50-100
<b>WIZ-115 (Dual SM Fiber)</b> , Gigabit Ethernet				* only available for WIZ-114
Wavelength (nm):	1300			
Power Budget min(dB):	5			
Distance (km):	0-10			
<b>WIZ-114 (Single Fiber, Dual Wavelength, Type A/B)</b>				
Wavelength (nm):	1300/1550	1300/1550		
Power Budget (dB):	20	33		
Distance (km):	0-40	20-70		
<b>WIZ-115/6 (Single Fiber, Dual Wavelength, Type A/B)</b>				
Wavelength (nm):	1300/1550	1300/1550		
Power Budget min(dB):	20	30		
Distance (km):	0-40	20-60		

### Electrical Characteristics

Chassis main Input Voltage	90 - 240 VAC, 47 - 440 Hz or - DC -12, -24, -48V
DC Power Consumption (PU) (Power Units per module)	WIZ-114 - 1.0 PU WIZ-115 - 1.1 PU WIZ-116 - 1.1 PU

### Safety & Emissions

CE, FCC Part 15, EN60950
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### Ordering Information (Dual SM Fiber)

<b>WIZ-11 [x]/[mc]/[s]/[sc]</b>
[x] = 4 for 100-155 Mbps rates (Fast Ethernet, FDDI and ATM(155M)); 6 for ATM(622M).
[mc] = Multimode Connector type: <b>SC, ST, VF(VF-45), MT(MT-RJ), LC</b> or <b>FJ</b> .
<b>Note:</b> The WIZ-116 is only available with <b>SC</b> connector.
[s] = SM power budget / distance required: <b>S, S1, S2</b> or <b>S3</b> according to the above Singlemode table (Dual Fiber).
[sc] = Singlemode Connector type: <b>SC, MT</b> and <b>LC</b> are available for WIZ-114 with [s]=S category.
<b>WIZ-115/SC/SC</b> - Gigabit, Multimode SX (850nm, SC) to Singlemode LX (1300nm, SC, 0-10km) converter, incl. status mgmt.

### Ordering Information (Single SM Fiber, dual wavelength, type A/B)

<b>WIZ-11 [x]/[mc]/SF-A/B/[s]/SC</b>
[x] = 4 for 100-155Mbps rates (Fast Ethernet, FDDI and ATM(155M)); 5 for Gigabit; 6 for ATM(622M).
[mc] = Multimode Connector type: <b>SC, ST, VF(VF-45), MT(MT-RJ), LC</b> or <b>FJ</b> .
<b>Note:</b> The WIZ-115/6 are only available with <b>SC</b> connector.
SF-A = type-A (TX-1550nm, RX-1300nm)
SF-B = type-B (TX-1300nm, RX-1550nm)
[s] = SM power budget / distance required: <b>S1</b> , or <b>S2</b> according to the above Singlemode table (Single fiber)

Dual Wavelength technology, works in pairs, SF type-A should be connected via single fiber to SF type-B.

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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