WizLAN Ltd.

100BaseT to 100BaseFX A/N Transparent Converters

WIZ-205A/206A

Media Wizard Modules

- 100BaseT to 100BaseFX transparent converter modules
- Full SNMP management and manual setup
- Auto-negotiation and force duplex modes on copper port(s), force duplex modes on fiber port(s)
- Multimode up to 6Km and Single mode up to 100Km
- Available with dual fiber, single fiber and CWDM, with SC, ST, MT-RJ, VF-45 and LC connectors
- Link verification functions: FEF, PONL
- Power-Fail Notification (PFN) - optional
- Auto MDI-II / MDI-X crossover
- STP/UTP cabling support
- Enhanced LED indications

The WIZ-205A/206A are fully manageable single/dual channel slide-in converter modules for the Media-Wizard modular chassis.

The modules perform transparent conversion between 100BaseT copper media and 100BaseFX fiber media, in compliance with IEEE802.3 Ethernet standards.

Full SNMP management capabilities. Capabilities include open/close port, auto-negotiate/manual, duplex, FEF, PONL, user assigned names, detailed port description and link status monitoring.

Auto-negotiating, hot-swappable slot-independent slide-in modules. Installable in the Media Wizard chassis and customized to meet your fiber-optic connectivity requirements, the single port converter is provided with WIZ-205A; the dual port converter is provided with WIZ-206A.

Enhanced Link Verification functionality. Functions such as Far-end-Fault (FEF) and Prorogation-of-no-Link (PONL) enable validation of the complete end-to-end link(s), as well as identification and isolation of network problems.

Power Failure Notification (PFN) option. Notification of power change (drop/raise) is transmitted in-band to the fiber link partner. Upon receiving PFN notification, the event is forwarded to the chassis management. PFN saves on network serviceability by enabling identification of power failures at remote sites.
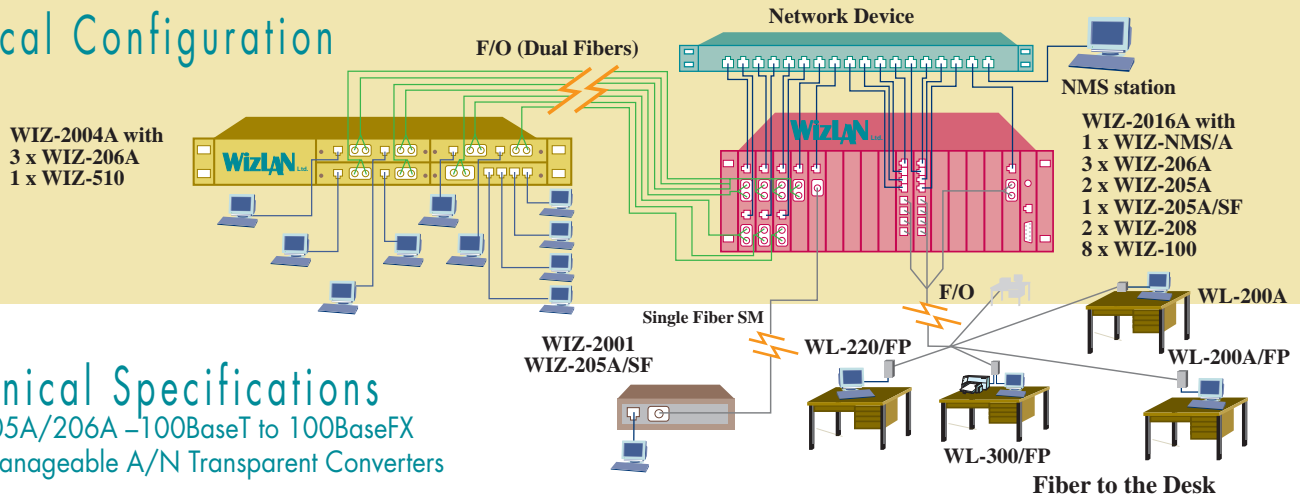
Easy Configuration for Un-managed mode. Includes onboard DIP switches for the converter(s) setup when used in an unmanaged chassis.

Enhanced LEDs. Indicators showing link and operational status.

MEDIA WIZARD

WizLAN Ltd. Your Connectivity Partner

Typical Configuration

Network Device

F/O (Dual Fibers)

NMS station

WIZ-2004A with
3 x WIZ-206A
1 x WIZ-510

WIZ-2016A with
1 x WIZ-NMS/A
3 x WIZ-206A
2 x WIZ-205A
1 x WIZ-205A/SF
2 x WIZ-208
8 x WIZ-100

F/O

Single Fiber SM

WL-200A

WIZ-2001
WIZ-205A/SF

WL-220/FP

WL-200A/FP

WL-300/FP

Fiber to the Desk

Technical Specifications
WIZ-205A/206A –100BaseT to 100BaseFX
Fully Manageable A/N Transparent Converters

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

LED Indicators (per each port)
A/N – Auto-Negotiation indication (only on RJ45)
LN/AC - link/activity indication
FDX – Full-Duplex indication
COL – Collision indication

Technology
Physical layer repeater

Standard Compliance
IEEE802.3u Fast Ethernet

Safety and Emissions
CE, FCC Part 15, EN60950

Special Features
Full SNMP management / manual setup
Far-End-Fault (FEF) detection on FDX port(s)
Propagation of No Link (PONL)
Auto MDI/MDI-X crossover
Link Verification Power Notification (PFN) – optional

100BaseFX Port(s)

Interface:
Multimode (MM), 1310nm	SC, ST, MT-RJ, VF-45, LC
Single mode (SM), 1310nm	SC, ST, LC
Singlemode (SM), 1550nm	SC, LC

Distance/Power budget:
Multimode (MM), 62.5/125	6Km/11dB
Singlemode (SM), 9/125	30Km/18dB (1310nm)
	50Km/30dB (1310nm)
	100Km /34dB (1550nm)
Single Fiber (SF), 9/125	20Km/18dB
	50Km/31dB
CWDM	70Km/25dB

Additional distances are available upon request.

Power Consumption:
DC Power Consumption (PU) WIZ-205A -0.8 PU, WIZ-206A -1.5 PU
(Power the module consumes from the chassis (in Power Units)

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

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

Ordering Information

WIZ-205A/206A M/[x]	(Single/Dual) 100BaseT to 100BaseFX (MM, 1310nm, 0-6Km,[x]), fully manageable converter module
WIZ-205A/206A [Sn]/[x]	(Single/Dual) 100BaseT to 100BaseFX (SM,[Sn]/[x]), fully manageable converter module
WIZ-205A/206A /SF/[Sn]/[x]	(Single/Dual) 100BaseT to 100BaseFX (SM, Single Fiber,[Sn],[x]), fully manageable converter module
WIZ-205A/206A S/CW-[type]/LC	100BaseT/TX to 100BaseFX (SM,CWDM, 25dB, 0 to 70Km, LC), fully manageable converter module

Where [type] = A for 1470nm, B for 1490nm, C for 1510nm, D for 1530nm,
E for 1550nm, F for 1570, G for 1590nm, H for 1610 nm

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 or LC
SF-B/[Sn]=S	Single Fiber SM B-1310/1550nm, 18dB, 0-20Km	[x]= Type of F/O connector: SC or LC
SF-A/[Sn]=S1	Single Fiber SM A-1550/1310nm, 31dB, 10-50Km	[x]= Type of F/O connector: SC or LC
SF-B/[Sn]=S1	Single Fiber SM B-1310/1550nm, 31dB, 10-50Km	[x]= Type of F/O connector: SC or LC

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