WizLAN Ltd.

100BaseTX to 100BaseFX Manageable Converter Stacks

WS-108/112/116

A Wiz-Stack Product

- 8,12 or 16 ports 100BaseTX to 100BaseFX Manageable Converter Stack
- Compact size 1U, 19" rack-mountable
- Auto-negotiation
- Far-end-fault detection
- Propagation of "No Link" option
- Multimode up to 6Km and Singlemode up to 100Km
- Available with SC, ST, MT-RJ, VF-45, LC or FJ connectors
- Single Fiber (Dual Wavelength) version available w/ST, SC and FC connectors
- Stackable Management, one SNMP agent module for up-to 8x Wiz-Stack units (128 converters)
- Redundant, hot swapable and plugable power supplies
- Highly visible LED indicators

Wiz-Stack product line offers an ultimate solution for homogeneous conversion centers, providing cost effective fixed configuration converter stacks. The Wiz-Stack complements the flexibility of the Media Wizard modular connectivity centers and the individual Wiz-Lite stand-alone products.

- WS-108 - 8x100BaseTX to 100BaseFX converter stack
- WS-112 - 12x100BaseTX to 100BaseFX converter stack
- WS-116 - 16x100BaseTX to 100BaseFX converter stack

The Wiz-Stack provides, among other features, the unique advantage of stackable management that enables stacking up to 8 Wiz-Stack units (128 converters) under a single SNMP agent module. The Wiz-NMS module (optional) is installed in the NMS slot of the master unit. A managed stack may include any combination of Wiz-Stack units.
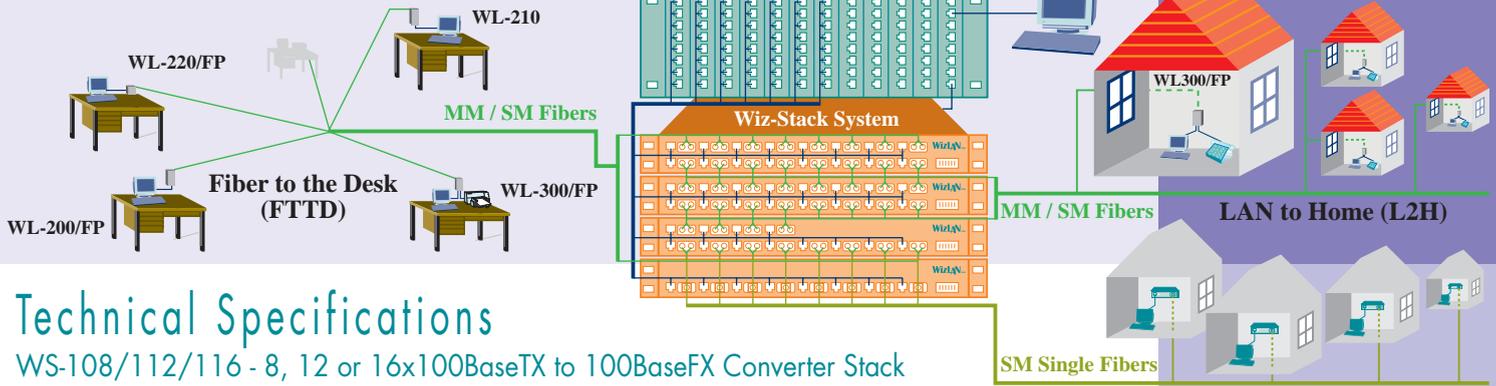
The WS-108/112/116 converter stacks support auto-negotiation and half/full duplex force operation, overcoming Ethernet distance limitations and enabling double throughput links. The converters support advanced connectivity features: "Far-end-fault" detection, responding to the round-trip fiber continuity, and propagation of "no link" mode (selectable) which propagates a "no link" status back to the TP devices. These features enable plug & play installation and integration as well as powerful link management tools.

WIZ-STACK

WizLAN Ltd. Simply Unbeatable

Typical Configuration

Network Device

NMS station

WL-210

WL-220/FP

MM / SM Fibers

Fiber to the Desk (FTTD)

WL-200/FP

WL-300/FP

Wiz-Stack System

WL300/FP

MM / SM Fibers

LAN to Home (L2H)

SM Single Fibers

Technical Specifications

WS-108/112/116 - 8, 12 or 16x100BaseTX to 100BaseFX Converter Stack

100BaseTX port(s)

100BaseTX auto-negotiation
100 meter (330 ft) distance over UTP/STP cable

LED Indicators (per port)

100BaseTX PORT(s)	LNK/ACT - Link/Activity (blinking)
	COL - collisions detected on the port
100BaseFX PORT(s)	LNK/ACT - Link/Activity (blinking)

LED Indicators (unit level)

PS-M	Main power supply-operating
PS-S	Secondary (redundant) power supply-operating
Master	Master unit & WIZ-NMS module detected
Slave	Slave unit connected to a master unit with NMS module installed

Front Panel Configuration Switches

Master/Slave stack number (three switches)
Halt/Idle - propagation of "No Link" (for all ports)
A/N enable / Force (for all TP ports)
Half/Full Duplex TP operation (for all TP ports)
NMS Stack connectors: 2x Centronic connectors

Special Features

Auto-negotiation / Manual Mode
Far-End-Fault detection, on FX ports
Propagation of "No Link" mode (optional)
Stackable NMS, Master/Slaves switch selection

Standard Compliance

IEEE 802.3u - 100Base Fast Ethernet
IEEE 802.3 - Auto-negotiation

100BaseFX port(s)

• Interface		
Multimode	1300nm	SC, ST, MT-RJ, VF-45, LC, FJ
Singlemode	1300nm	SC, ST, MT-RJ, LC
	1550nm	SC
• Distance/Power budget		
Multimode	62.5/125µ	6Km/11dB
Singlemode	9/125µ	20km 40Km 60km 100Km
		11dB 21dB 31dB 32dB

Electrical Characteristics

Chassis main input voltage	90 - 264 VAC
Frequency	47 - 440 Hz
AC power consumption (max):	
WS-108	30 watts/40 watts w. RPS
WS-112	38 watts/50 watts w. RPS
WS-116	45 watts/60 watts w. RPS

Technology

Physical layer transparent converter

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	

Dimensions

Height	Width	Depth
1U (4.4cm,1.75")	48.3cm (19")	27cm (11")

Safety & EMC

CE, FCC Part 15, EN60950

Ordering Information

WS-1xx/M/[c]	(xx)x100BaseTX to 100BaseFX (MM, 1300nm,0-6Km,[c]), A/N converter stack, inc. PS & management slot
WS-1xx/[Sn]/[c]	(xx)x100BaseTX to 100BaseFX (SM, [Sn],[c]), A/N converter stack, inc. PS & management slot

xx	08 for WS-108, 12 for WS-112 and 16 for WS-116	
M	Multimode 1300nm 0-6Km	[c]= Type of F/O connector: SC, ST, VF-45, MT-RJ, LC or FJ
[Sn]=S	Singlemode 1300nm 0-20Km	[c]= Type of F/O connector: SC, ST, MT-RJ, LC
[Sn]=S1	Singlemode 1300nm 10-40Km	[c]= Type of F/O connector: SC, ST
[Sn]=S2	Singlemode 1300nm 30-60Km	[c]= Type of F/O connector: SC, ST
[Sn]=S3	Singlemode 1550nm 50-100Km	[c]= Type of F/O connector: SC

Single Fiber (dual wavelength, works in pairs), type A: TX-1550nm and RX-1300nm, type-B: TX-1300nm and RX-1550nm	
WS-1xx/S1/SF-A/SC	(xx)x100BaseTX to 100BaseFX (SM, SF-A-1550/1300nm,0-35Km,SC) A/N conv. stack, inc. PS & mgmt. slot
WS-1xx/S1/SF-B/SC	(xx)x100BaseTX to 100BaseFX (SM, SF-B-1300/1550nm,0-35Km,SC) A/N conv. stack, inc. PS & mgmt. slot
WS-1xx/S2/SF-A/SC	(xx)x100BaseTX to 100BaseFX (SM, SF-A-1550/1300nm,20-70Km,SC) A/N conv. stack, inc. PS & mgmt. slot
WS-1xx/S2/SF-B/SC	(xx)x100BaseTX to 100BaseFX (SM, SF-B-1300/1550nm,20-70Km,SC) A/N conv. stack, inc. PS & mgmt. slot

WS-1XX PS	Plugable universal PS for the WS-108/112/116 converter stack
WIZ-NMS	SNMP mgmt. module (agent) for the Media-Wizard and Wiz-Stack units. Including 10BaseT and RS232 interfaces