

# WS-112A/124A

## Wiz-Stack Products



- 12 or 24 ports 10/100Base-TX to 100Base-FX Managed or unmanaged Converter Stack
- Transparent 3R\* conversion and/or switch modes
- Auto MDI, Auto-negotiation and force modes, flow control
- 1/2 Telco (RJ-21) or 12/24 RJ45\* rear TP port connections
- Link Verification features:
  - Far-End-Fault detection (FEF)
  - Propagation Of No Link (PONL)
- Supports Multimode and Singlemode fibers
- Available with SC, ST or LC fiber optic connectors
- Inband/outband management via three LAN ports
- Remote management via SNMP, Web and Telnet
- Configuration via management or jumpers (basic setup)
- Highly visible, per port and global LED indicators
- Dual (redundant), hot swap internal power supplies
- Compact size 1U, 19" for desktop and rack mounting
- Plug-in hot swap FAN unit

Wiz-stack product line offers an ultimate solution for homogeneous conversion centers providing cost effective converter stacks. Wiz-stack complements the flexibility of the Media Wizard modular connectivity center and the Wiz-Lite and Wiz-Lite-Managed stand-alone products.

WS-112A provides 12x 10/100Base-TX to 100Base-FX converter stack

WS-124A provides 24x 10/100Base-TX to 100Base-FX converter stack

The WS-xxx units, include 12/24 F/O ports at the front and 1/2 RJ-21 50 pin female Telco connectors at the back of the unit. The Telco connectors connect with 25 pairs extender or octopus cables, or using WizLAN's WS-TelcoRJ adaptors (optional) provide 12/24 RJ45 ports. The F/O ports are available with variety of fix connectors for multimode and singlemode fibers. The units also include dual load sharing, hot swap plug-in power supplies, RJ11 CLI port for initial IP setting and three 10/100Base-TX ports (switch) through which remote managers can access and management of the unit. The three ports allow inband/outband network connections and device cascading.

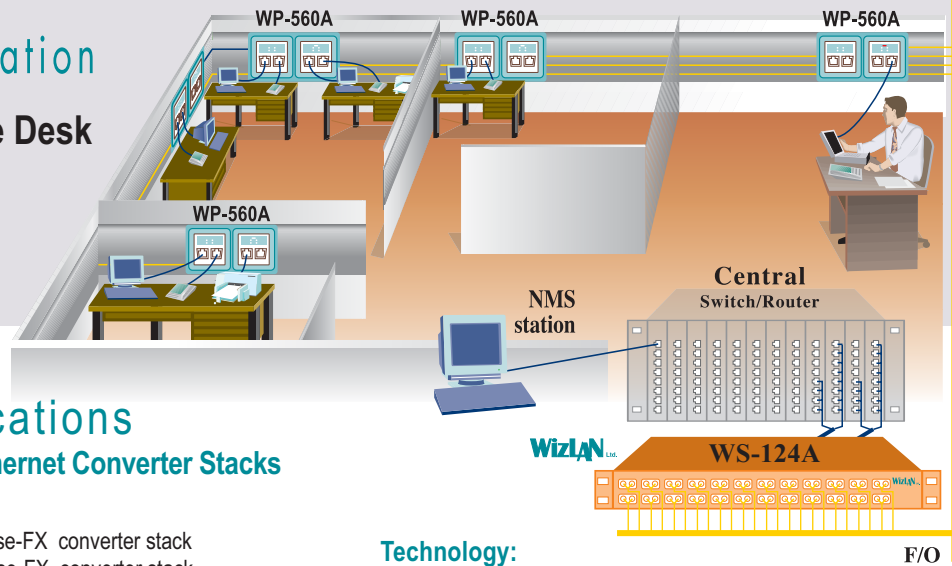
The unique conversion mode selection enables using 3R\* technology (Retiming, Reshaping and Regeneration) for transparent conversion of Fast Ethernet links, and fast switching technology for dual speed 10/100M links. The link verification features, FEF and PONL, provide better control of link operation and integrity. The converters support auto MDI, auto negotiation and force modes and flow control.

The WS-xxx includes embedded SNMP agent and full capability cross platform Java Web based EMS with secured access capabilities. The management provides control and monitoring for the converter setup, as well as chassis management (voltage, temperature and FANs).



# Typical Configuration

## Fiber to the Desk



## Technical Specifications

### WS-112A, 124A Dual Speed Ethernet Converter Stacks

**WS-112A:** 12x 10/100Base-TX to 100Base-FX converter stack

**WS-124A:** 24x 10/100Base-TX to 100Base-FX converter stack

#### 10/100Base-TX Copper TP ports: (Rear Panel)

100Base-TX, auto-negotiation or force (duplex), auto MDI and polarity  
100 meter (330ft) distance over CAT5 or above TP cables

Connectors: WS-xxx/T - 1/2 Telco (female RJ21)  
WS-xxx/R - 12/24 RJ45 (using WS-RJ45 adaptor accessory)

#### 100Base-FX Fiber Optic ports: (Front Panel)

Interface - duplex fiber:

Multimode (MM), 1310nm Connectors: SC, ST, LC  
Singlemode (SM), 1310/1550nm Connectors: SC, ST, LC

Distance (estimation) / power budget:

Multimode (MM), 50/62.5/125μ 6Km/11dB  
Singlemode (SM), 9/125μ, 1310nm 30Km/18dB  
Singlemode (SM), 9/125μ, 1310nm 10-50Km/30dB  
Singlemode (SM), 9/125μ, 1550nm 40-100Km/34dB

SFP version

#### Other Interfaces: (Rear Panel)

Three 10/100M RJ-45 LAN ports (switch), to enable cascading and inband/outband access to the embedded management agent through the LAN.  
RJ11 CLI port, optional for initial IP setup of the device.

#### LED indications:

Four global LEDs (front panel): Power indication per each power supply;  
FANs OK; Management OK

Two Link/Activity indications (fiber/copper) per converter (front panel):  
Link/Activity per each of the management LAN ports (rear panel)

#### DIP Switch Setup (management disabled):

Global setup for all 12/24 converters.  
A/N - Force; Duplex; Propagation Of No Link (PONL); Far-End-Fault (FEF);  
Speed (on copper); Conversion mode.

#### F/O Link Verification Functions:

Far-End-Fault Indication (FEFI) detection on fiber port  
Propagation Of No Link (PONL)

#### Ordering Information:

WS-112A/\_\_\_/\_\_\_ 12 port 10/100M Ethernet manageable converter stack, [copper connectors type], [F/O ports type], [F/O connector] including two (redundant power supplies and embedded management agent.

WS-124A/\_\_\_/\_\_\_ same as above for 24 ports.

#### Ordering Terminology

WS-112A/[copper connector type]/[F/O port type]/[connector type]

**R**= RJ45 connectors

**T**= Telco/RJ21 50 pin connector(s)

**M**= 100Base-FX (Multimode, 1310nm, 11dB, 0-6Km)

**S**= 100Base-FX (Singlemode, 1310nm, 18dB, 0-30Km)

**S1**= 100Base-FX (Singlemode, 1310nm, 30dB, 10-50Km)

**S2**= 100Base-FX (Singlemode, 1550nm, 34dB, 40-100Km)

**SC**

**ST**

**LC**



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Rev. 2.5

#### Technology:

None blocking Fast Switching Technology for dual speed conversions. Max frame size 1600 bytes.

Transparent, 3R repeating technology (Retiming, Reshaping and Regeneration) for single speed Fast Ethernet conversions (supports any frame size).

#### Embedded Management Agent:

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

#### Setup and Configuration:

DIP switch global setting (management disabled).

A/N - Force; Duplex; Propagation Of No Link (PONL); Far-End-Fault (FEF);  
Speed (on copper); Conversion mode

Remote setup via management (per port setup)

Initial IP configuration via Wiz-Init application and/or CLI (RJ11)

#### Management Options:

Fully manageable remotely via SNMP, Web and Telnet

Main management functions: Converter/port operational mode, flow control,  
link verification (FEF, PONL) and chassis management (voltage, temp., FANs)

#### Management Access Security:

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

#### Power:

Two plug-in power supplies, load sharing, hot swap

Input voltage: 90 - 264 VAC, 50/60Hz

FAN unit: plug-in, hot swape FAN unit (including 3 FANs)

#### Standards Compliance:

IEEE802.3, 802.3U

#### Safety and Emission Standards:

CE, FCC for class A, EN 60950

#### Dimensions:

Width	Height	Depth
483mm(19")	44mm(1U, 1.75")	190mm(7.5")

#### Environment:

Operating Temp.: 0° to 45°C (32° to 113°F)