WizLaN Ltd.

AS/400 & System/3X
F/O Data Multiplexer

WIZ-404

A Media Wizard Modules

- F/O Data Multiplexer module for IBM AS/400 and System/3X
- F/O link and four MUX/De-MUX ports
- Multiplexer and De-Multiplexer operation modes
- Supports IBM5250 1Mbps and 2Mbps (Express) rates
- Configurable pin assignment per port (RJ-45 pins and polarity)
- Enhanced LED indications
- Modular and stand-alone versions
- Manageable

The WIZ-404 IBM data multiplexer module complements the WIZ-407, active star module, in providing IBM connetivity solutions to the Media Wizard modular connectivity centers. The WIZ-404 provides multiplexing/de-multiplexing functions for IBM AS/400 & S/3X processors and terminals. The module includes four RJ-45 UTP/STP ports and one F/O link port for multi-mode or single-mode fibers. Two WIZ-404 interconnected with F/O link can connect one IBM AS/400 or System/3X processor port (up-to 4 lines) to up-to four daisy-chains of IBM AS/400 or System/3X terminals.

The WIZ-404 supports a wide range of IBM terminals and printers, among them are:
Display Stations:.....IBM 5251/2, 5291, 3180, 3196/7, 3475/6/7, 3487, 3497 and plug compatibles
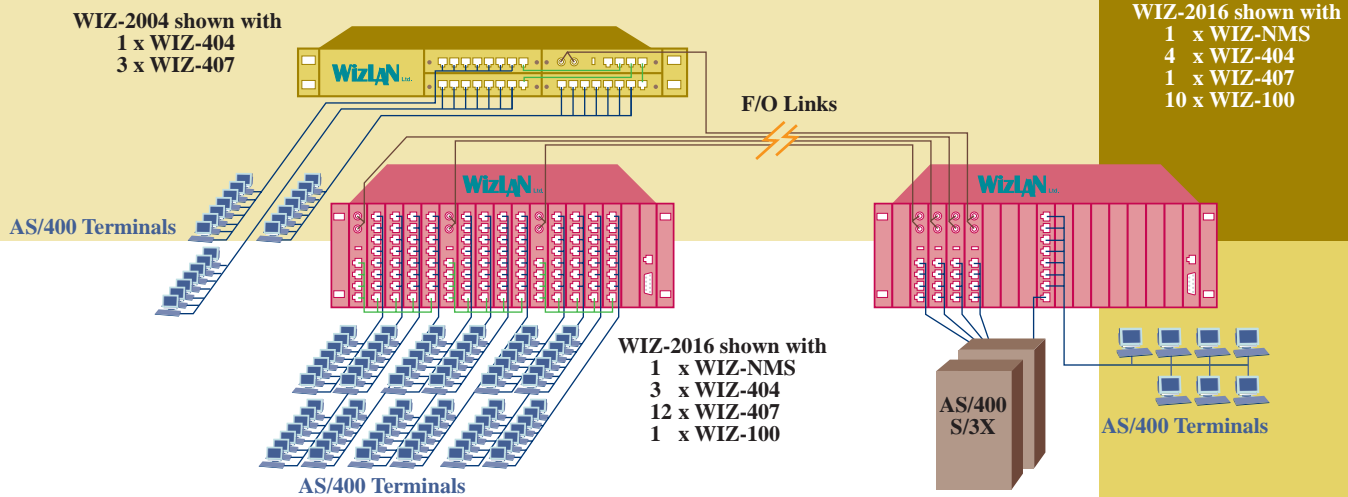Printers:...............IBM 5256 and plug compatibles

The WIZ-404 automatically supports IBM5250 1Mbps and Express 2Mbps rates, and includes jumper configurable pin-out and polarity for the RJ-45 ports. The MUX/De-MUX operation mode is determined via a switch located on the panel. The modules operate independently and provide extensive diagnostics and status display consisting of eight high visibility LED indicators.

To maximize efficiency and minimize installation costs the WIZ-404 modules can be installed in the Media Wizard 16, 4 or 2 slot modular chassis, saving rack space and outlets, and enabling easy service and maintenance. Up-to 16 multiplexer modules can be installed in a 16 slot chassis providing compact high density multiplexing center for the controller's side, while a mixture of de-multiplexer and active star modules can be installed at the remote terminal side. support an optional redundant power supply and central management. For standalone application, the module can also be installed in a small dual or single slot chassis equipped with an integrated wide range AC or DC power supply.

WizLaN Ltd. Simply Unbeatable

MEDIA WIZARD

Typical Configuration

F/O Links

AS/400 Terminals

WIZ-2016 shown with
1 x WIZ-NMS
3 x WIZ-404
12 x WIZ-407
1 x WIZ-100

AS/400 S/3X

AS/400 Terminals

AS/400 Terminals

Technical Specifications
WIZ-404 IBM AS/400 & System/3X Data Multiplexer module

RJ-45 Ports

Ports	4xRJ-45
Distance	500m (1650 ft)
Cable type	UTP/STP catedory 3,4 or 5
RJ-45 Pin-out	+1,-2; -1,+2; +4,-5; -4,+5 (jumper configurable)

LED Indicators

ACT	Port activity (per port)
C/T	Controller/Terminal operation mode
	"on" when Controller is selected
2M	2Mbps activity detected

System Compliance

Computer models	IBM system AS/400, S/3X
Standards	IBM 5250 1Mbps
	IBM 5250 Express 2Mbps
Propagation delay	13.5μs
Terminals	All IBM terminals;
	5251/2, 5291, 3180
	3196/7, 3475/6/7, 3487
	3497 and compatibles
Printers	All IBM printers: 5256
	and compatibles
Data rates	1 or 2 Mbps

MUX/De-MUX Selection (Switch)

CONT	Controller side (Multiplexer)
TER	Terminal side (de-multiplexer)

Fiber-Optic Link

Fiber	Wavelength	Optical budget	Conector
Multimode	850nm	11dB	ST
Singlemode	1300nm	9dB	ST

LED Indicators

ACT (RX)	Receive activity detected on the Link
ACT (TX)	Transmit activity detected on the Link
PWR	DC power available

Electrical Characteristics
(Installed in WIZ-2016/2004/2002/2001 Chassis)

Chassis main Input Voltage	90 - 240 VAC, 9 - 72 VDC
Frequency	47 - 440 Hz
DC Power Consumption (PU)	WIZ-404 - 1.4 PU

Safety & Emissions

CE, FCC Part 15, EN60950

Physical Dimensions (Module)

Height	Width	Depth
130mm (5.1")	25.4mm (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	

Technology

Software transparent multiplexer

Ordering Information

WIZ-404/M/ST	AS/400 & S/3X Data Multiplexer, Link: 1xF/O (MM, 850nm, 11dB, ST); Ports: 4xRJ-45 selectable pins and polarity, status management
WIZ-404/S/ST	AS/400 & S/3X Data Multiplexer, Link: 1xF/O (SM, 1300nm, 9dB, ST); Ports: 4xRJ-45 selectable pins and polarity, status management