



5 Ports Ethernet SWITCH 10/100BaseT/TX and 100BaseFX



WIZ-510

Media Wizard Modules

- Five port Ethernet switch
- Four 10/100BaseTX and one uplink port, FX or TX
- 100BaseFX uplink port available with
 - Multimode or Singlemode interfaces up to 100Km
- 10/100BaseTX RJ-45 ports supporting
 - Auto-negotiation or manual setting (speed & duplex)
 - MDI-II / MDI-X auto crossover
- Full wire speed and half/full duplex support on all ports
- Far-end-fault detection, flow control and broadcast storm control support
- VLAN and QOS support (optional)
- Per port enhanced LED indicators
- Manageable

The WIZ-510 modules are a series of five port switch modules used in the Media Wizard modular chassis. The WIZ-510 series provide the Media-Wizard with dual speed switching capabilities for small workgroups and LPP (LAN-Per-Port) distribution.

The WIZ-510 modules include four 10/100Mbps auto-negotiation UTP ports, as well as an up-link (fifth) port supporting 100BaseFX or 10/100 TX interfaces. The up-link port is available with a choice of RJ-45 or SC, ST, MT-RJ, VF-45, LC or FJ F/O connectors for Multi-mode or Single-mode fibers.

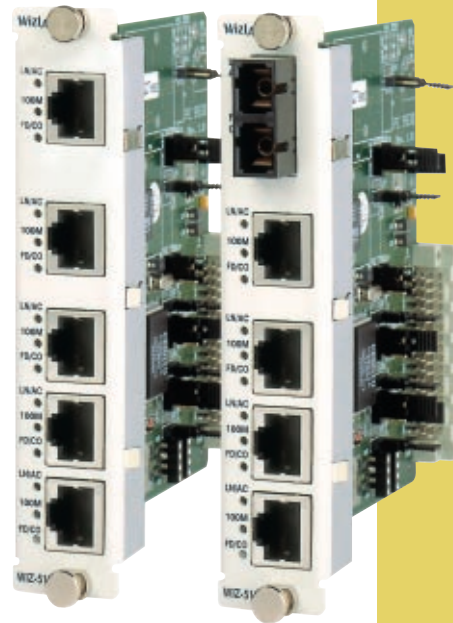
The WIZ-510 delivers powerful features usually found in high-end switches: full wire speed forwarding and filtering on all ports; 1k MAC addresses using automatic learning and aging; half/full duplex operation with flow control that allow 20/200Mbps bandwidth and minimize packet loss; 128KByte frame buffer memory: auto-negotiation on the TX ports; broadcast storm control and optional VLAN and priority (QOS) capabilities.

The WIZ-510 uses store & forward architecture enabling direct 10/100 speed transfers as well as error checking and filtering that optimize network performance.

The WIZ-510 supports VLAN frames up to 1536 bytes.

A complete set of LED indicators provides easy monitoring of the status and the activity on each individual port.

The WIZ-510 supports MDI-II/MDI-X auto crossover on the 10/100BaseT/TX ports.

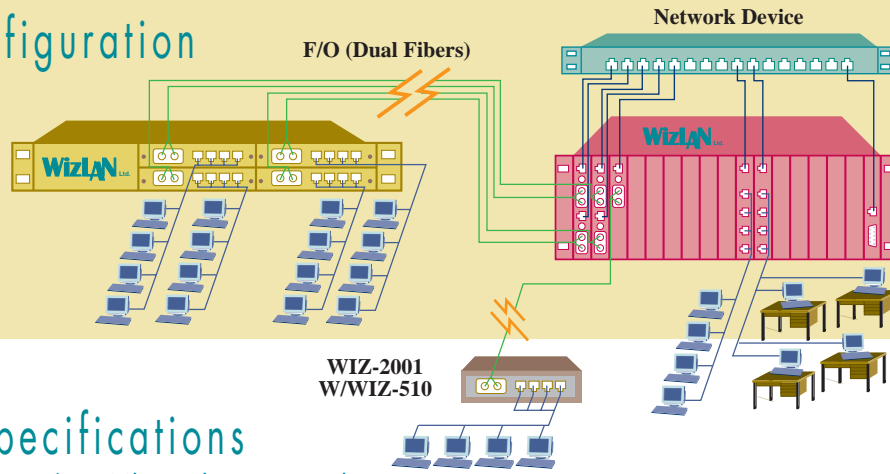


MEDIA WIZARD

WizLAN Ltd. Simply Unbeatable

Typical Configuration

WIZ-2004 shown with 4 x WIZ-510



WIZ-2016 shown with
 1 x WIZ-NMS
 2 x WIZ-202
 1 x WIZ-201
 2 x WIZ-510
 11 x WIZ-100

Technical Specifications

WIZ-510 - Five Ports 10/100Mbps Ethernet Switch

10/100BaseTX Ports

10/100BaseT/TX RJ-45 connectors
MDI-II / MDI-X Auto crossover
10/100 A/N or manual setting (speed and HDX/FDX)
100 meter (330 ft) distance over UTP/STP

Status Indicators (per RJ-45 port)

Link/Act	On - Link established (10 or 100) Blinks - activity detected on the port
100M	On - operating at 100Mbps Off - operating at 10Mbps
FDX/Col	On - port operates in FDX mode Off - port operates in HDX mode Blinks - collisions detected

Operational Characteristics

MAC Address	1K addresses Auto learning and aging
Buffer size	128KByte
Forwarding and filtering rate	148,880 pps for 100Mbps 14,880 pps for 10Mbps
Max. frame size	1536 byte
Architecture	Store & forward

Standard Compliance

IEEE 802.3 - 10Base Ethernet
IEEE 802.3u - 100Base Fast Ethernet
IEEE 802.3x - Flow Control

Physical Dimensions (Module)

Height	Width	Depth
130mm (5.1")	25.4mm (1")	140mm (5.5")

Ordering Information

WIZ-510/U	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 10/100BaseT/TX auto-neg. up-link port, inc. status mgmt. (1.2 PU)
WIZ-510/M/C*	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 10/100BaseFX up-link port (MM, 1300nm, 0-6km, C*=SC, ST, MT, VF, LC, FJ connector), inc. status mgmt. (1.5 PU)
WIZ-510/S/C*	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 100BaseFX up-link port (SM, 1300nm, 0-20km, C*=SC, ST, MT, LC connector), inc. status mgmt. (1.5 PU)
WIZ-510/S1/C*	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 100BaseFX up-link port (SM, 1300nm, 10-40km, C*=SC, ST connector), inc. status mgmt. (1.5 PU)
WIZ-510/S2/C*	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 100BaseFX up-link port (SM, 1300nm, 30-60km, C*=SC, ST connector), inc. status mgmt. (1.5 PU)
WIZ-510/S3/C*	Five ports switch, 4 port 10/100BaseTX auto-neg. ports and one 100BaseFX up-link port (SM, 1550nm, 50-100km, C*=SC connector), inc. status mgmt. (1.5 PU)
WIZ-510/VLAN	Special firmware configuration for the WIZ-510 switches. Factory installed firmware per customer requested VLAN and QOS.

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.

100BaseFX port

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

Status Indicators (100BaseFX Up-link Port)

Link/Act	On - Link established (10 or 100) Blinks - if activity detected on the port
FDX/Col	On - port operates in FDX mode Off - port operates in HDX mode Blinks - collisions detected

Electrical Characteristics

(Installed in WIZ-2016/2004/2001 Chassis)

Chassis main Input Voltage	90 - 240 VAC, DCV
Frequency	47 - 400 Hz
DC Power Consumption (PU)	WIZ-510/U - 1.2 PU
(Power Units per module)	WIZ-510/x/yy - 1.5 PU

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	

Safety & Emission

CE, FCC Part 15, EN60950



WizLAN Ltd. P.O. Box 7948, Haifa 31078, Israel e-mail: sales@wizlan.com http://www.wizlan.com Tel: +972-4-857-2199 Fax: +972-4-857-2204