WizLAN Ltd.

5 Ports 10/100Mbps Modular Ethernet Switch

WL-510

A Wiz-lite Product

Wiz lite

- Five port modular Ethernet switch
- Four 10/100BaseTX and one modular uplink port, FX or TX
- Multimode or Single mode options up to 100Km
- 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
- VLAN and QOS support (optional)
- Per port enhanced LED indicators
- Compact size, desktop and wall mounting
- Unique Fiber Protector version

The WL-510 is a compact standalone dual speed Ethernet switch, equipped with a modular up-link port. The WL-510 is the ideal solution for remote workgroups and home/office applications (L2H, FTTD).
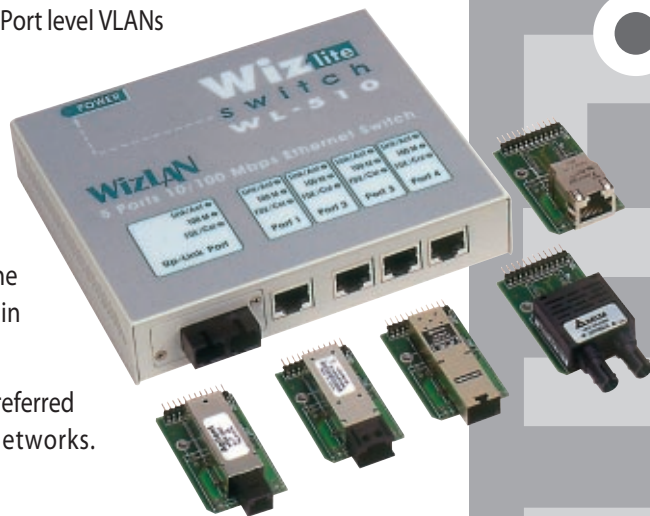
The WL-510 includes four 10/100Mbps RJ-45 ports, as well as a modular up-link (fifth) port supporting 100BaseFX or 10/100BaseTX interfaces. The 100BaseFX up-link modules are available with a choice of RJ-45 or SC, ST, MT-RJ, VF-45, LC or FJ F/O connectors for Multimode or Single mode fibers.

The WL-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 support; 128KByte buffer memory; auto-negotiation and manual setting of speed and duplex, and auto MDI-II MDI-X crossover on all TX ports. Port level VLANs and Priority (QOS) are available upon request.

The WL-510 uses store & forward architecture enabling direct 10/100 speed transfer as well as full error checking and filtering that optimize network performance. The WL-510 supports long frames (VLAN) of up to 1536 bytes.

LED indicators provide enhance monitoring of the status and the activity of each individual port. The indicators are highly visible in both desktop and wall mounting.
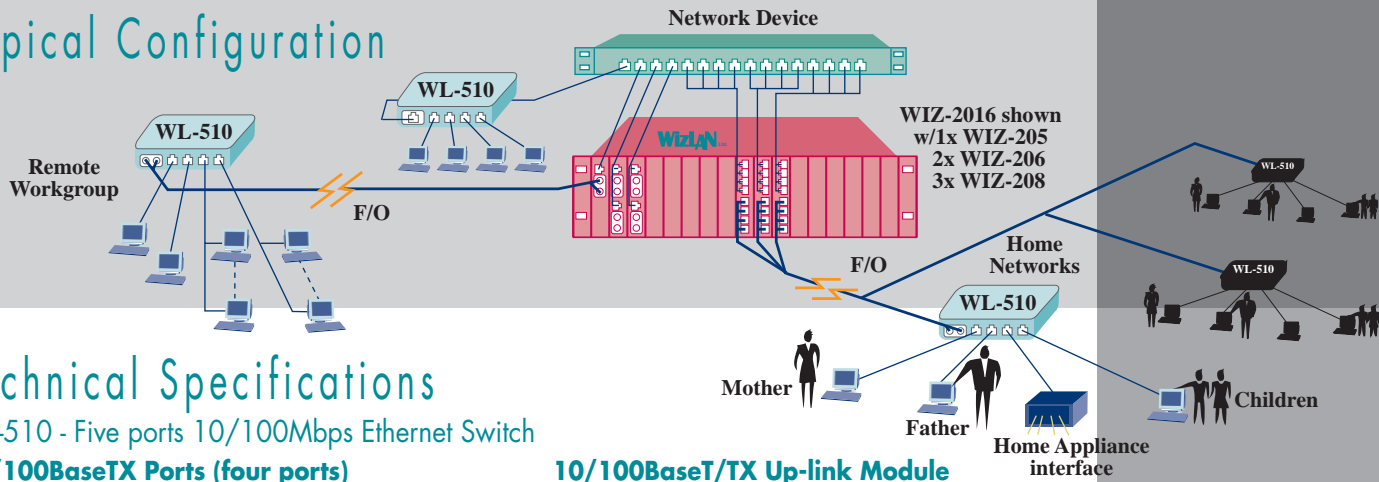
Adding together the features and versatilities, the WL-510 is the preferred plug and play solution for workgroups and home/office networks.

WizLAN Ltd. Simply Unbeatable

Typical Configuration

Network Device

WL-510

WL-510

Remote Workgroup

F/O

WizLAN

WIZ-2016 shown w/1x WIZ-205 2x WIZ-206 3x WIZ-208

WL-510

WL-510

Home Networks

F/O

WL-510

Mother

Father

Home Appliance interface

Children

Technical Specifications

WL-510 - Five ports 10/100Mbps Ethernet Switch

10/100BaseTX Ports (four ports)

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

Status Indicators (per port)

Link/Act	On - if Link detected (10 or 100)
	Blinks - if activity detected (RX/TX)
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

Standards Compliance

IEEE 802.3   10Base Ethernet
IEEE 802.3   100Base Ethernet
IEEE 802.3x Flow Control

Power Requirements (WL-510)

Input	+5VDC 2A regulated
Power jack polarity	+5V -

Power Adapter (EPS)

External AC/DC wall mount adapter type (included)	
AC input	90 - 240 VAC / 50-60Hz
DC output	5 VDC 3A regulated

10/100BaseT/TX Up-link Module

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

100BaseFX Up-link Module

• Interface		
Multimode	1300nm	SC, ST, MT-RJ, VF-45, LC, FJ
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 (Up-link Port)

Link/Act	On - if Link detected (10 or 100)
	Blinks - if activity detected (RX/TX)
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

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 (WL-510)

Height	Widt	Depth
30mm (1.2")	147mm	125mm (4.9")

Safety & Emissions

CE, FCC Part 15, EM60950

Ordering Information

WL-500/*/*/*	Five ports 10/100Mbps Ethernet switch, 4 port 10/100BaseTX ports and one optional up-link port from the uplink modules listed below (add bold extentions only), incl. EPS
WLM-510/**B**	Blank without an up-link module
WLM-510/**U**	10/100BaseT/TX (RJ-45) module
WLM-510/**FE/M/C***	100BaseFX up-link module, MM FO (1300nm, 0-6km, C*= SC,ST, MT, VF, LC, FJ connector)
WLM-510/**FE/S/C***	100BaseFX up-link module, SM FO (1300nm, 0-20Km, C* = SC, ST. MT, LC connector)
WLM-510/**FE/S1/C***	100BaseFX up-link module, SM FO (1300nm, 10-40Km, C*= SC, ST connector)
WLM-510/**FE/S2/C***	100BaseFX up-link module, SM FO (1300nm, 30-60Km, C*= SC, ST connector)
WLM-510/**FE/S3/C***	100BaseFX up-link module, SM FO (1550nm, 50-100Km, C*= SC connector)
Fiber Protector	For a fiber protected version please add/**FP** to the above part number
WL-510/VLAN	Special VLAN/QOS firmware for the WL-510
//*Example:	**WL-510/FE/M/SC/FP** - 4 ports 10/100UTP with one 100BaseFX (MM, 1300nm, 0-6km, SC) up-link port, in a fiber protected unit version.

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