WizLAN Ltd.

Gigabit Managed F/O PoE Metro SWITCH

WM-1200

WizMetro

A Wiz-Metro Product

- Twelve ports Gigabit F/O PoE managed switch
- Eight 10/100/1000Base-T ports and four SFP (open) ports
- Four PoE+ (IEEE802.3at/af) and two Ultra PoE++ up-to 60Watt. Total available PoE power up-to 120Watt.
- Isolated dry contact I/O ports, IN and OUT (optional)
- Two isolated serial ports: CLI V.24 (RS232) and Ext. port for RS232/422/485 RTU
- Advanced Networking features: Jumbo frames; IPv4/IPv6 multicast; QoS/CoS; VLAN IEEE802.1Q and port based; STP, RSTP and MSTP; IGMP snooping; IEEE802.1x; Radius and TACACS+; MAC security
- Management: HTTP/HTTPS; SNMPv1/v2/v3; Telnet/SSHv2; SNMP traps and Syslog; RMON groups 1,2,3,9; Access list; Configuration upload and download; DHCP Client and Relay or static IP
- Wide range AC or DC powering options
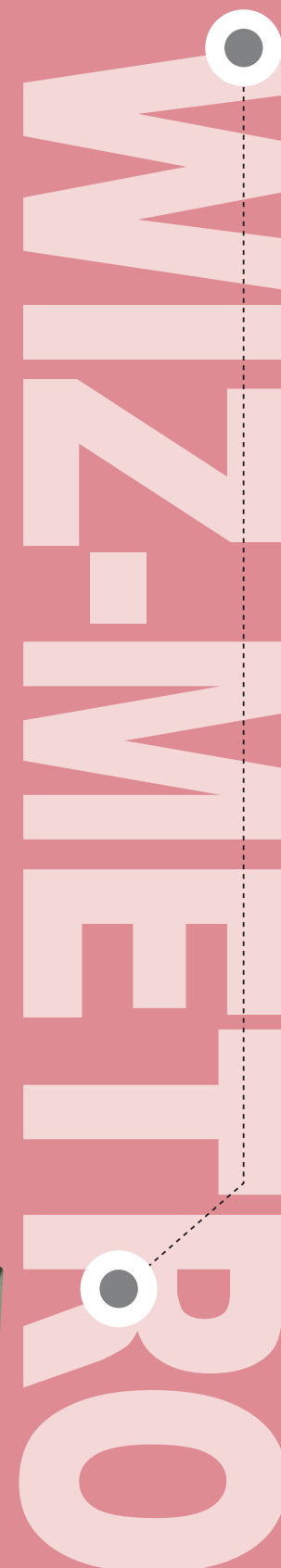- Desktop and rackmount installation (1U)

WM-1200 is a twelve ports managed high-end PoE access switch providing flexible Fiber-optic/SFP connectivity supporting daisy-chain, rings or star backbones as well as PoE+/++ 10/100/1000Base-T ports. It is designed for Metropolitan Area Networks (MAN), LAN-to-Home (L2H) markets, as well as for IP based control, security & surveillance systems. The WM-1200 can be used at the network centers, part of outdoor/industrial and security networks using the industrial WI-1200.

The state of the art technology, eight 10/100/1000M copper Ethernet ports and four 100/1000M open SFP ports, external isolated serial port, isolated dry contact IN and OUT terminals (optional) as well as the unique PoE+ and ultra PoE+ (PoE++) support, versatile powering options make the WM-1200 the best-of-choice building block in any network.
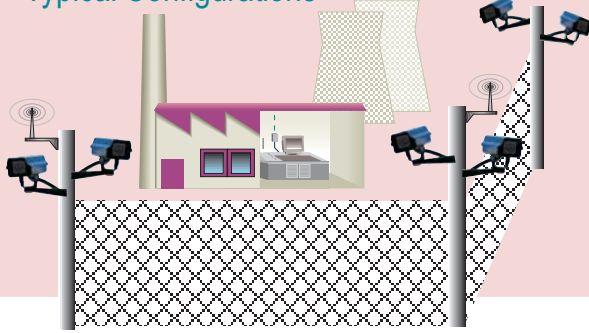
WM-1200 extended PoE support provides four ports with full IEEE802.3at power and two ultra 802.3at ports providing up-to 60watts per port. The total PoE power supported by the WM-1200 is up-to 120watts.

The discrete isolated input terminals may connect to a sensor, security circuit or a micro-switch and the output can activate an alert/device or a relay.
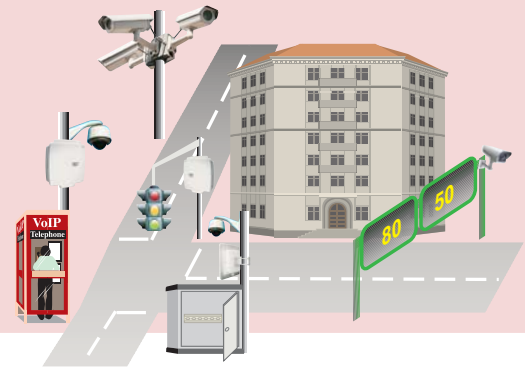
WM-1200 remote management is provided by secured Web GUI based on HTTPS communicating with open API. Local management provided by Cisco like CLI interface based on SSH.

WIZ-METRO

WizLAN Ltd. *Your Connectivity Partner*

Typical Configurations

**Daisy-chain
Rings, Stars
Gigabit, PoE, I/O**

VoIP Telephone

Metro Connectivity, LAN 2 Home, Security and Survailance

Technical Specifications

WM-1200 - Twelve port Gigabit PoE Managed Switch

Interfaces

Copper ports: 8x 10/100/1000Base-T RJ45 auto-negotiation auto-cross.

Fiber ports: 4x SFP open interfaces including 100/ 1000Mbps support with Digital Diagnostic Monitoring (DDM).
Also supporting copper SFP transceivers.

Console port: RS232 isolated port using Cisco CLI pinout for local access.

External Serial port: Dedicatd RS232/422/485 isolated interface for RTU legacy equipment.

Descrete I/O (optional): Isolated digital input (2 pins) and dry contact relay output (3 pins changeover) for connecting to external sensors and actuator.

Pushbutton (hidden): Restore factory defaults; Freeze configuration

Power Over Ethernet (PoE)

PoE+: 4x ports (# 9,10,11,12) IEEE802.3at, full power 30 Watts per port.

Ultra PoE+: 2x ports (# 7,8) ultra 802.3at suport, up-to 60 Watts per port.

Total PoE power support up-to 120Watt.

Powering Options

WM-1200/AC*   (PoE wide AC) 90-264VAC 200Watt.
WM-1200/NP/AC   (No PoE wide AC) 90-264VAC 25Watt.

WM-1200/DCL*   (PoE 12/24V version) DC input   9-36VDC 120 watt max.
WM-1200/NP/DCL (No PoE 12/ 24V version) DC input   9-36VDC 16 watt max.

WM-1200/DCH*   (PoE 24/48V version) DC input 18-60VDC 120 watt max.
WM-1200/NP/DCH (No PoE 24/48V version) DC input 18-60VDC 16 watt max.

 * includes FAN

Environment

Operating Temperature: 0°C to +45°C (32 to 113°F)
Storage Temperature: -40°C to +85°C (-40 to 185°F)
Operating Humidity   5% to 95% (non-condensing)

Dimensions

Width	Height	Depth
260mm (10.2")	44mm (1.75", 1U)	250mm (9.8")

Enclosure and Mounting

Aluminum enclosure, desktop and rackmount (via tray) mounting.
Weight: 2.0 - Kg

Technology

Carrier grade Gigabit Ethernet core switch.
Nonblocking wire-speed switching performance for all frame sizes.
8K MAC addresses; 4Mb Packet memory.
Jumbo frames up-to 9.6Kbytes.
Port Mirroring; Rate limit.
Embedded 32-bit CPU for management.

Network Recovery

STP/RSTP (Rapid Spanning-tree) IEEE 802.1d/w.
MSTP (Multiple Spanning-tree) IEEE802.1s.

Network Access Control & Security

QoS 8 priorities + 8 CoS queues per port, strict or weighted round robin.
VLAN 802.1Q, 4K VLANs; Q in Q; Port Based VLAN.
Snooping IGMPv2 and IGMPv3, MLDv1 and MLDv2.
Access control IEEE802.1X; MAC security; Access List.
Security: Radius and TACACS+

Management

HTTP/HTTPS server.
SNMPv1/v2/v3 agent.
CLI Telnet /SSHv2 (Cisco like).
SNMP traps and Syslog messages.
RMON Group 1,2,3,9
Static IP or DHCP
DHCP client
Configuration download and upload (supports few configurations).
Real time clock.

Standards Compliance

IEEE802.3i, 802.3u, 802.3x, 802.3z, 802.3ab, 802.3af/at/ultra_at

Regulatory Approvals

Standards: CE, FCC,
Isolation: 2.1KVDC; ESD: 8KV; Surge: 2KV; EFT: 2KV
Safety: EN60950-1:2001
EMC:
    Emission: EN61000-6-3:2007 , EN55022 class B
    Immunity: EN61000-6-2:2007 , EN55024

Ordering Information:

WM-1200/AC - Twelve port Gigabit PoE Managed Switch. AC input 90-264VAC 50/60Hz 200 watt, FAN.

WM-1200/NP/AC - Twelve port Gigabit Managed Switch without PoE. AC input 90-264VAC 50/60Hz 200 watt.

WM-1200/DCL - Twelve port Gigabit PoE Managed Switch. 12/24V range, DC input 9-36VDC 120 watt, FAN.

WM-1200/NP/DCL - Twelve port Gigabit Managed Switch (without PoE). 12/24V range, DC input 9-36VDC 16 watt.

WM-1200/DCH - Twelve port Gigabit PoE Managed Switch. 24/48V range, DC input 18-60VDC 120 watt, FAN.

WM-1200/NP/DCH - Twelve port Gigabit Managed Switch (without PoE). 24/48V range, DC input 18-60VDC 16 watt.

WM-1200/xx/xx/IO - Descrete I/O option, Isolated digital input (2 pins) and dry contact relay output (3 pins changeover).