



WI-1200

Wiz-Industrial Product

- Twelve ports managed rugged Gigabit PoE switch
- Cyber Security ready - add on SW option
- Eight 10/100/1000Base-T ports and four SFP (open) ports
- Four PoE+ (IEEE802.3at/af) and two Ultra PoE++ up-to 60Watt. Total PoE power up-to 240Watt.
- Isolated dry contact I/O ports, IN and OUT
- Two isolated serial ports: CLI V.24 (RS232) and Ext. port for RS232/422/485 RTU
- Two, redundant, power inputs in the range of 24V (19-36 VDC) or 48V (36-60VDC)
- Operating temperature -40°C to + 75°C, fanless
- DIN rail aluminum enclosure, IP30 protection
- Standards certified: CE, FCC, VCCI, UL, Elec. Utilities
- 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; IP configuration static or using DHCP



WI-1200 is a super high-end ruggedized Gigabit PoE switch specially designed for industrial and outdoor harsh environment networks.

Composed of state of the art technology, outdoor design, ruggedized build and topnotch functionalities and performance makes the WI-1200 the ultimate solution for physical security, communication and control networks. The WI-1200 provides highest level of reliability and network availability required in mission critical, security, surveillance and industrial applications.

The flexibility of eight 10/100/1000M copper Ethernet ports and four 100/1000 open SFP ports, external isolated serial port, dry contact IN and OUT isolated terminals as well as the unique PoE+ and ultra PoE+ support and dual/redundant power inputs make the WI-1200 the best-of-choice building block for any outdoor/industrial network.

WI-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 WI-1200 is up-to 240watts.

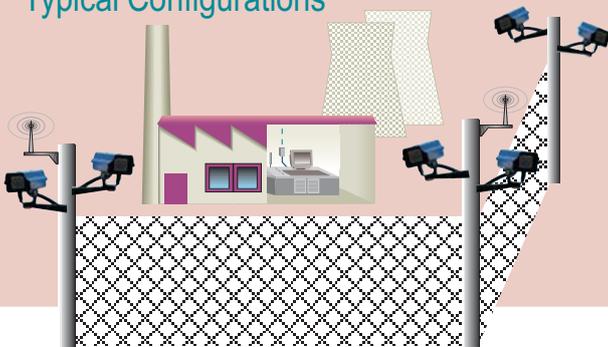
The discrete isolated I/O terminals connects to a sensor or a micro-switch as an input and activates an alert or a relay for an output.

WI-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-INDUSTRIAL

Typical Configurations



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



Data, Security, Surveillance, Control, Defence

Critical Infrastructure; Electric, Hydro and Chemical Utilities; Air/Sea ports; Transportation; Safe-city; WiFi city nets; Highway/Traffic monitoring & control; Environment monitoring and more

Technical Specifications

WI-1200 - Twelve port Gigabit Industrial/Outdoor 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: Dedicated RS232/422/485 isolated interface for RTU legacy equipment.

Discrete I/O: 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 mode B)

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

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

Total PoE power support up-to 240Watt depending of environment temperature.

Powering Options

Dual (redundant) power inputs (plug-in secured connectors), load sharing.

WI-1200/DCL - with internal 350W DC2DC for 24VDC range (19-36VDC).

WI-1200/DCH - with internal 350W DC2DC for 48VDC range (36-60VDC).

Max. power consumption 300 Watt. 16watts without PoE loads.

WI-1200/DDC/

Input range: Direct DC supply of 45 - 58 VDC as per the type of PDs (af/at), with power capability according to the total sum of PoE loads to be supported, plus the switch power consumption of 16 watts.

WI-1200/NP/DCL (No PoE version) DC input 9-36VDC 16 watt max. .

WI-1200/NP/DCH (No PoE version) DC input 18-60VDC 16 watt max. .

Environment

Operating Temperature: -40°C to +75°C (-40 to 167°F)

Storage Temperature: -40°C to +85°C (-40 to 185°F)

Operating Humidity 5% to 95% (non-condensing)

Dimensions

	Width	Height	Depth
WI-1200/DCL; DCH	84mm (3.3")	183mm (7.2")	140mm (5.51")
WI-1200/DDC; NP/DCL/H	60mm (2.4")	183mm (7.2")	140mm (5.51")

Enclosure and Mounting

Aluminum die-cast IP30 Protection, DIN rail mounting. Weight: 1.8/1.5Kg

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, VCCI, UL

Isolation: 2.1KVDC; ESD: 15KV; Surge: 4KV; EFT: 4KV

Safety: EN60950-1:2001

EMC:

Emission: EN61000-6-3:2007, EN55022 class B

Immunity: EN61000-6-2:2007, EN55024

Electrical Utility Substations: IEEE1613, IEC 61850-3

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.

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