



# WI-870

## Wiz-Industrial Product

- Seven port fully managed rugged Gigabit switch
- Three 10/100/1000Base-T ports and Four COMBO ports 1000Base-X (SFP) and 10/100/1000Base-T (RJ45)
- Four isolated dry contact inputs for sensors/contact alerts and one dry contact activation output (optional)
- PoE (IEEE802.3af PSE) support on the three copper ports
- Supports WizLAN's Fast Ring Recovery (FRR) algorithm
- Dual wide range power inputs, 11-56VDC or 8-40VAC, PoE version power input 45-58VDC
- Operating temperature from -20°C to + 70°C
- DIN rail enclosure, IP30 protection
- Advanced features: VLAN (802.1Q and port based), QoS/CoS, STP/RSTP, IGMP snooping, RMON, Rate limiting, Port monitoring and more
- Port based network access control via MAC security and 802.1X authentication
- Remote management (in-band) via SNMP, Web (http/https) and Telnet
- Highly secured management access via IP white list, secured NMS path and passwords
- Advanced remote management security, and HTTPS



WI-870 is a high-end rugged Gigabit switch specially designed for industrial and outdoor harsh environment fiber optic networks.

The unique combination of four COMBO (SFP/RJ45) ports and three triple speed (RJ45) ports supporting PoE enables the versatile use of the WI-870 in any outdoor/industrial installation and fiber optic network topology such as daisy-chain, ring, fiber star and access. Supporting WizLAN's proprietary Fast Ring Recovery (FRR) algorithm, the WI-870 assures highest level of network recovery (in less than a second) and availability.

Based on state-of-the-art industrial technology and equipped with advanced features the WI-870 best suites outdoor/industrial networks and IP based systems for control, security and surveillance.

WI-870 includes dual (redundant) wide-range DC/AC power inputs, optional PoE (802.3af PSE) on the three copper ports and optional isolated dry contacts input/output ready for alert services and remote device activation.

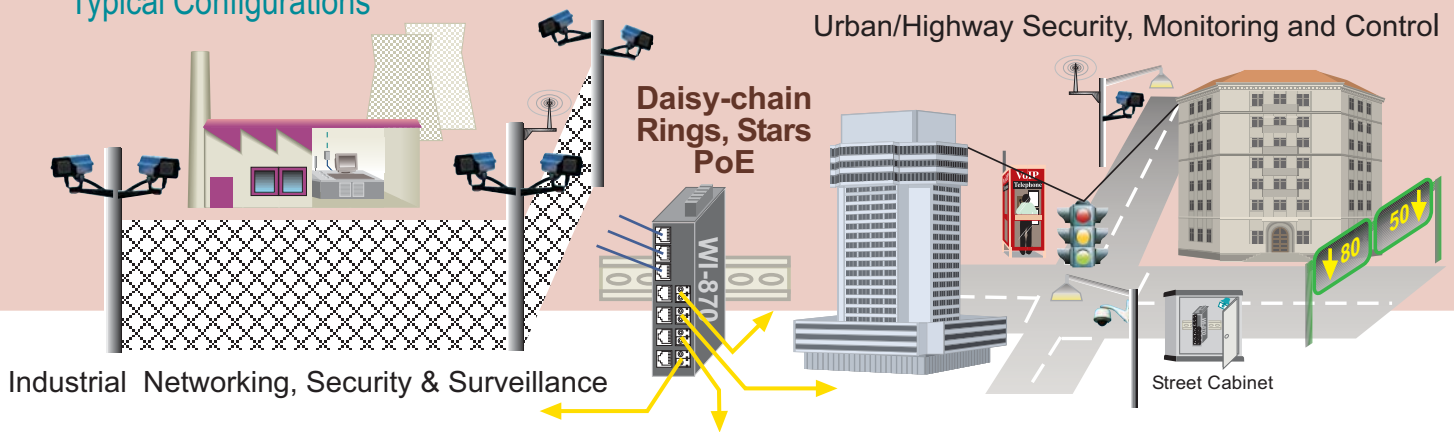
The four COMBO ports enable the flexibility of SFP (Small Form Factor Pluggable) transceivers supporting multimode, singlemode, single fiber and copper links.

WI-870 includes embedded SNMP agent and full capability cross platform Java Web based EMS. WI-870 provides secured in-band connection for all remote managers: SNMP, Telnet and Web (http/https). The management provides control and monitoring of all switch parameters, features, functions (including PoE operation and dry contacts), hardware and environment as well as remote upgrade capabilities.



**WIZ-INDUSTRIAL**

## Typical Configurations



## Technical Specifications

### WI-870 - Fully managed seven port Gigabit Industrial Switch

#### Three 10/100/1000Base-T RJ45 Ports

10/100/1000Base-T RJ45 auto negotiation/manual, auto MDI and polarity

#### PoE (PSE) on the three RJ45 ports (optional)

802.3af PSE, full power 15.4 Watts per port with power management

Requires suitable power supply

#### Four COMBO Ports (SFP and RJ45)

Four "pairs" of RJ45 and SFP port interfaces, only one active at a time, auto or manual selection via the management

SFP - supporting 1000Base-X SFP transceivers

RJ45 - 10/100/1000Base-T auto negotiation/manual, auto MDI and polarity 100 meters (330ft) over TP cables Cat5e and above

#### Dry Contact Inputs/Output (Optional)

Four isolated dry contact inputs for sensors/alerts (operated via isolated 5VDC supplied by the WI-870). Removable eight pin terminal block per channel.

One isolated dry contact activating output, capable of 250V DC or AC peak 120mA. Removable two pin terminal block per channel.

#### LED Indicators

POWER - Power "OK" indication, LED per power input

NMS - Management agent active

L/A - Link/Activity per port (all RJ45 and SFP ports)

Gb - Gigabit speed operation (RJ45 ports)

PoE - PSE ready/active on the port (on three copper ports)

I/O Circuits In - Dry contact - short on input (only with Dry contact option)

I/O Circuit Out - Control output "ON" (only with Dry contact option)

FRR - Fast Ring Recovery Enable and Blocked LEDs

#### Power

Two (redundant) power inputs. Max. power consumption 9 Watt (w/o PoE)

Input range: 11 - 56 VDC or 8 - 40 VAC 50/60Hz (PoE 45-58VDC)

Connectors: Two removable triple pin terminal block

Industrial DIN-rail external power supplies (ordered separately):

WI-PS120-48 48VDC 2.5A (120 Watt) suitable for WI-870 with PoE support

WI-PS40-48 48VDC 0.8A (40 Watt) suitable for WI-870 with PoE support

WI-PS20-24 24VDC 1A (20 Watt) suitable for WI-870 w/o PoE support

#### Environment

Operating Temperature: -20°C to +70°C (-4 to 158°F)

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

#### Dimensions

Width	Height	Depth
50mm (2.17")	155mm (6.1")	105mm (4.14")

#### Enclosure and Mounting

#### Technology

Store & forward non-blocking high-speed switching technology

Maximum frame size: 1632 bytes

Frame buffer memory: 1Mbit

Address table: 1,024 MAC addresses

learning and aging (controlled via NMS)

MNGT Agent: Embedded SNMP agent, Web server (Java Web based EMS) and Telnet

#### Network Recovery

WizLAN Fast Ring Recovery (FRR) algorithm (optional)

Spanning Tree 802.1d/w (RSTP/STP)

#### Network Access Security

Two level MAC access security

VLAN (802.1Q): full range of 4,096 VLAN IDs with tag insert/remove and double tag support

Port Based VLAN, full matrix

802.1X authentication (via Radius server) - Optional

#### Network Access Control

QoS: four traffic class queues IPv4 Type of Service (TOS) or Differentiated Services ( Diff Serv), IPv6 traffic Class

IGMP snooping (IGMPv3), Spanning Tree 802.1d/w (RSTP/STP)

Rate limit (on ingress and/or egress), Open/close port

#### Management Options

Fully manageable remotely via SNMP v2c, Web (http, https) and Telnet

#### Management Access Security

Four user access level, password protected

SNMP community string

Management VLAN assignment

IP access list (white list)

Radius authentication for Web management

HTTPS (optional)

#### Initial Configuration

Initial IP configuration via local CLI or Wiz-Init application (through the LAN port)

#### Standards Compliance

IEEE802.3, 802.3ab, 802.3U, 802.3x, 802.3Q, 802.1d/w, 802.1X  
RMON: RFC2819 (supersedes 1757 and 1217) Ethernet statistic group

#### Regulatory Approvals

Safety: EN60950-1:2001

EMI: EN61000-6-3:2007 (Emission - office)

For more details and ordering information please Contact your WizLAN representative.

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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