# WI-520/525

## Wiz-Industrial Products

- Fully Managed rugged F/O PoE Switchs
- One/two 100M F/O backbone ports (SFP, SC, ST) and four 10/100M RJ45 user's ports with 802.3af PoE/PSE option
- Dual wide range power inputs, 11-56VDC or 8-40VAC (PoE version 45-58VDC)
- Advanced switch features: VLAN (802.1q), QoS, STP/RSTP, RMON and more
- Network access control via MAC security and optional 802.1x authentication
- Remote management via SNMP, Web and Telnet with enhanced access security
- Operating temperature from -20°C to + 70°C
- DIN rail enclosure IP30

The WI-520/525 are high-end rugged 10/100M Ethernet switches specially designed for industrial and outdoor harsh environment fiber optic networks.

The switches offer daisy-chain, ring or star backbone topologies for Industrial networking as well as for the growing outdoor markets of IP services and multimedia applications such as security and surveillance, traffic control, emergency services and many more. the PoE option enable to connect, activate and control any PoE/PD device such as IP camera, access point, IP phone etc..

The switches provide enhanced network and connectivity features, PoE/PSE option and high level of management and access security.

WI-520 Fully managed F/O access switch, 1x 100Base-FX; 4x 10/100Base-T

WI-525 Fully managed F/O ring/daisy-chain switch, 2x 100Base-FX; 4x 10/100Base-T

The WI-520/525 include embedded SNMP agent and full capability cross platform Java Web based EMS. The WI-520/525 provide secured in-band connection for all remote managers, SNMP, Telnet and Web. The management provides control and monitoring of all switch parameters, features, functions (including PoE), hardware and environment as well as remote upgrade capabilities.
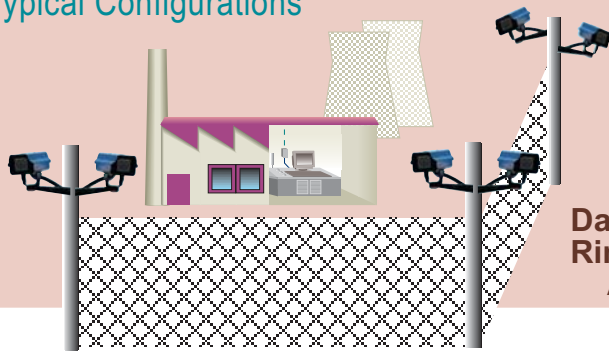
Initial device setup can be done using the local CLI port (RS232) or via any network connection using Wiz-Init application.

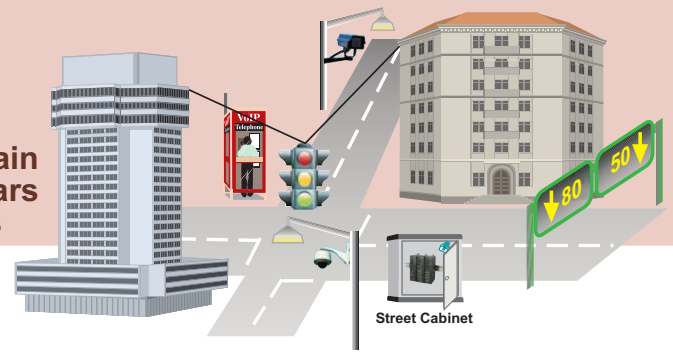Per port LED indicators provides high visibility of port status and switch activity.

**WIZ-INDUSTRIAL**

**Urban/Highway Security, Monitoring and Control**

**Daisy-Chain Rings, Stars Access**

Street Cabinet

**Industrial Networking, Security & Surveillance**

# Technical Specifications

## WI-520/525 – 5/6 Ports Managed Access

### 10/100Base-T User's ports (4 ports)
10/100Base-T RJ-45 auto-MDI, auto polarity
A/N or manual (speed HDX/FDX) Via management
100 meter (330 ft) distance over UTP/STP

### PoE (PSE) on the four copper ports (optional)
802.3af PSE, full power 15.4Watts per port with power management

### LED Indicators
POWER 1,2 - Input power indications
MNGT - Management agent active
Link/Activity - Link / Activity indication, LED per port
PoE - Enabled/Active, LED per copper port

### Link Verification Functions
• Far-end-Fault (FEF) detection on fiber port (selectable)
• Port mirroring

### Technology
Store & forward non-blocking fast switching technology
Maximum frame size: 1536 bytes
Address table: 2,048 MAC addresses with automatic learning and aging
Spanning tree (STP/RSTP), PoE 802.3af
MNGT Agent: Embedded SNMP agent, Web server (Java Web based EMS) and Telnet. Advanced MNGT and user access security

### Management Options and Security
Fully manageable via SNMP v2c, Web and Telnet
Advanced management and access security (IP, MAC and 802.1x (optional))
HTTPS (optional)

### Standard Compliance
IEEE802.3, 802.3U, 802.3x, 802.1Q, 802.1p, 802.1d/w, 802.1x, 802.3af

### Initial IP Setup and Network Connectivity Tester
RS-232 CLI local connection (RJ-11), using a special cable available from WizLAN
Using Wiz-Init remote application, available free from WizLAN

### 100Base-FX Uplink Port (1 or 2 ports)
SFP port(s), it is recommended to use WizLAN approved SFP transceivers
Or fixed SC or ST fiberoptic transceivers:
Interface (duplex fiber):
    Multimode (MM), 1310nm
    Singlemode (SM), 1310/1550nm
Distance / power budget:
    Multimode (MM 62.5/125 m) 2km/11dB
    Singlemode (SM 9/125 m) 30km/18dB, 50km/30dB, 100km/34dB
    Single Fiber (SM, SF dual wavelength) 20km/18dB, 50km/31dB

### Power
Two (redundant) power inputs, maximun power consumption 6 Watts (w/o PoE)
Input range: 11 - 56 VDC or 8 - 40 VAC 50/60Hz (PoE version 45 - 58VDC)
Connectors: Two removable triple pin terminal blocks

Industrial DIN-rail external power supplies (ordered separately):
WI-PS120-48   48VDC 2.5A (120 Watt) suitable for WI-525 with PoE
WI-PS40-48   48VDC 0.8A (40 Watt) suitable for WI-525 with PoE
WI-PS20-24   24VDC 1A (20 Watt) suitable for WI-525 w/o PoE

### Regulatory Approvals
Safety:     EN60950-1:2001
EMI:       EN61000-6-3:2007 (Emission - office)
EMS:       EN61000-6-2:2007 / EN55024 (Immunity - Industrial/Outdoor)

### Dimensions

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

### Enclosure and Mounting
IP30 Protection, DIN rail mounting

### Environment
Operating Temperature:     -20°C to +70°C (-4 to 158°F)
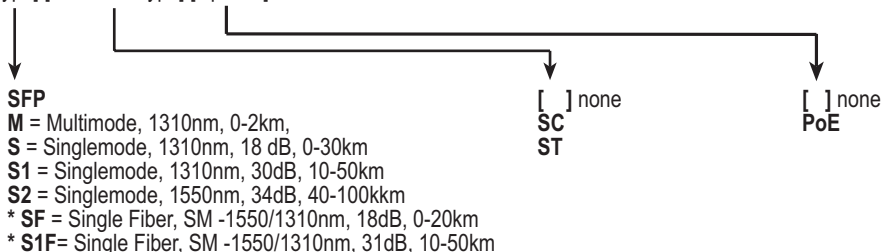Storage Temperature:       -40°C to +85°C (-40 to 185°F)

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### Ordering Information
**WI-520/__/__/__**     Five port fully managed DIN-Rail industrial switch. Four ports 10/100Base-T, one 100Base-FX uplink ports [Uplink Type], [connector type],[options]
**WI-525/__/__/__**     Six port fully managed DIN-Rail industrial switch. Four ports 10/100Base-T, two 100Base-FX uplink ports [Uplink Type], [connector type],[options]

### Ordering terminology
**WI-52x** /[Uplink type]/[connector type]/[Options]

**SFP**                                    **[ ] none**              **[ ] none**
**M** = Multimode, 1310nm, 0-2km,          **SC**                    **PoE**
**S** = Singlemode, 1310nm, 18 dB, 0-30km  **ST**
**S1** = Singlemode, 1310nm, 30dB, 10-50km
**S2** = Singlemode, 1550nm, 34dB, 40-100kkm
**\* SF** = Single Fiber, SM -1550/1310nm, 18dB, 0-20km
**\* S1F**= Single Fiber, SM -1550/1310nm, 31dB, 10-50km

\* Single Fiber (dual wavelength, works in pairs): type A: TX-1550nm and RX-1310nm connects to type B: TX-1310nm and RX-1550nm.
To simplify the installation and service the WI-525/SF includes one port type A and second port type B. SC connectors only.

Example: **WI-525/S/SC/PoE**     Six port fully managed DIN-Rail industrial switch. Four ports 10/100Base-T, two 100Base-FX uplink ports (singlemode, 1310nm, 18 dB, 0-30km, SC), PoE/PSE

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## For more detailes and/or other configurations please Contact your WizLAN representative.

# WizLaN

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