



# WM-825

## A Wiz-Metro Product

- 10 port fully managed Telco-grade Gigabit switch for F/O cascading/ ring and Metro access applications
- 2 fiber optic Gigabit backbone ports (SFP, SC or RJ45) and 8 x 100BaseFX (SFP) or 10/100BaseT access ports
- Four isolated “dry contact” inputs for sensors and alerts, and one activation “dry” output (optional)
- PoE (IEEE802.3af PSE) support on 4 or all 8 copper access ports (optional)
- Advanced features: VLAN (802.1Q and port based), QoS, STP/RSTP, IGMP Snooping, 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
- AC or DC power supply options
- Standard (0° - +55°C) and Industrial (-20° - +70°C) versions
- Desktop and rack mount installation (1U)



WM-825 is a fully managed high-end access switch providing multiple 100BaseFX or 10/100BaseT access ports on to Gigabit fiber optic daisy-chain, ring or star backbones. It is designed for Metropolitan Area Networks (MAN), LAN-to-Home (L2H) markets, as well as for IP based control, security & surveillance systems.

WM-825 offers large variety of models as well as options for PoE (802.3af PSE), dry contacts inputs/output (ready for alert services and remote activation), AC or DC power sources and access security features. The WM-825 offers SFP (Small Form Factor Pluggable) transceiver flexibility and SC connectors supporting multimode, singlemode and single fiber links.

Based on state-of-the-art technology and equipped with advanced features, the WM-825 provides complete user/service isolation, access control, bandwidth and quality-of-service management as required for advanced data and multimedia services.

WM-825 supports full 4096 802.1Q VLAN IDs, Quality of Service (QoS) with four traffic classes, 802.1d/w spanning tree, IGMP snooping, port mirroring, rate limit, flow control, RMON, MAC and 802.1X network access control and more.

WM-825 includes embedded SNMP agent and full capability cross platform Java Web based EMS. WM-825 provides 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 operation and dry contacts), hardware and environment as well as remote upgrade capabilities.



# WM-825 Model Variety

## WM-825/FFF



## WM-825/FCF



## WM-825/CFF



## WM-825/CFF/xx-SC



## WM-825/CCF



## Technical Specifications

### WM-825 - 10 ports Fiber Optic Gigabit Access Switch

#### 2x 1000BaseT/SX/LX Backbone/Uplink Ports:

Gigabit Fiber options:

Multimode (MM), 850nm Connectors: SFP, SC

Singlemode (SM), 1310/1550nm Connectors: SFP, SC

Distance / power budget:

Multimode (MM 62.5/125, 50/125) 220/550m / 8dB

Singlemode (SM 9/125) 10Km/10dB, 20Km/17dB (1310nm)  
50Km/17dB, 70Km/24dB (1550nm)

Single Fiber (SM, SF dual wavelength) 10Km/12dB  
20Km/17dB  
40Km/20dB

Gigabit Copper port:

10/100/1000BaseT RJ-45 auto-MDI and polarity Auto Negotiation

100 meter (330 ft) distance over TP cables Cat5, 5e and 6

#### 8x User's ports:

8x 100BaseFX SFP ports:

Multimode (MM), 1310nm Connectors: SFP

Singlemode (SM), 1310/1550nm Connectors: SFP

Distance / power budget:

Multimode (MM 62.5/125) 6Km / 11dB

Singlemode (SM 9/125) 30Km/18dB,

Single Fiber (SM, SF dual wavelength) 20Km/18dB

--OR--

8x 10/100BaseT RJ45 ports:

10/100BaseT/TX RJ-45 auto-MDI crossover

A/N or manual (speed HDX/FDX) Via management

100 meter (330 ft) distance over UTP/STP

#### PoE (PSE) Option:

802.3af PSE on four or all eight 10/100BaseT ports (Total of 60/120Watts)

#### Dry Contact inputs/output Option:

Four isolated dry contact inputs for sensors/alerts (operated via isolated 5VDC supplied by the WM-825).

One isolated dry contact control output, supports 250V DC or AC peak 120mA.

#### F/O link Verificatoin Functions:

Far-End-Fault (FEF) detection on 100BaseFX ports (On/Off)

#### LED Indications:

POWER - Power ON indication

NMS - Management agent active

Link/Act - Link/Activity (per port)

PoE - PoE, PSE power supplied on the port (with PoE option)

Circuit In (1-4) - Dry contact - short on input (with Dry contact option)

Circuit out - Control output "ON" (with Dry contact option)

#### Power:

AC input Internal power supply: 90-264VAC 50/60Hz

DC input Internal power supply: DCL - 9 to 36VDC; DCH - 36 to 72 VDC

PoE version, AC input 90-264VAC 50/60Hz, 60Watts or 120Watts

#### Technology:

Store & forward non-blocking high-speed switching technology

Maximum frame size: 1632 bytes

Frame buffer memory: 1Mbit

Address table: 8K MAC addresses with automatic learning and aging

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

#### 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: support 64 configurable VLANs

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, Spanning Tree 802.1d/w (RSTP/STP)

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

#### Management Options:

Fully manageable via SNMP, Web and Telnet

#### Management Access Security:

Three user access level, password protected  
SNMP community string

Management VLAN assignment

IP access list (white list)

Radius authentication for Web management

#### Initial Configuration:

Via Wiz-Init remote application

#### Standards Compliance:

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

#### Safety and Emission Standards:

CE, FCC Part 15, EN60950

#### Module Dimensions:

Width	Height	Depth
220mm(8.7")	44mm(1.75")	190mm(7.5")

#### Environment:

Operating Temp. Standard version: 0° to +55°C (32° to 131°F)  
Industrial version: -20° to +70°C (4° to 158°F)

Storage: -30° to 70°C (-22° to 158°F)

Humidity: 10% to 90% non-condensing

### Ordering Information: For 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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