

Commercial Grade Managed Layer 2+ Ethernet Switch with $20 \times 100/1000Base-FX$ SFP + 4 × Gbps Combo + 4 × 1000BASE-FX SFP Ports

CWGE28MS





The ComNet CWGE28MS has twenty 100/1000Base-FX SFP ports, four Gigabit combo ports that allow for TX or FX transmission and four 1000Base-FX SFP ports. All SFP ports utilize ComNet SFP* modules for fiber, connector type and distance. The IEEE802.3-compliant unit offers multiple Ethernet redundancy protocols (ERPS G.8032 and MSTP/RSTP/STP) which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The CWGE28MS implements complete Layer 2 to Layer 4 ACLs to restrict access to your sensitive network resources by filtering specific packets based on TCP/UDP ports, source and destination IP addresses or particular network devices. Furthermore, DHCP snooping, TACACS+, ARP, IEEE 802.1X and Port Security provide additional tools to manage access and levels of use of the network. These defence mechanisms of the CWGE28MS along with advanced DoS auto prevention deliver robust network security and enables network administrators to offer more stable services on a more secure network.

FEATURES

- > 28 Gbps Ports: 20 × 100/1000Base-FX SFP Ports 4 × Gigabit Combo Ports 4 × 1000Base-FX SFP Ports
- > Supports IPV6 latest internet protocol version
- > Provided SSH protocol enhances network security
- > Supports Device Binding security function
- Internal 100-240 VAC Power Supply
- > Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- > Supports L2/L3/L4 ACL, TACACS+ & 802.1x User Authentication for security
- > Supports 10K Bytes Jumbo Frame
- > Multiple notifications warn of unexpected events

- > Web-based, Telnet, Console (CLI), and Windows-based utility (eConsole) monitoring
- › Layer 3 static routing
- Supports IEEE 1588v2 Precision Timing Protocol
- > IEEE 802.3AZ Energy Efficient Ethernet-Compliant
- > Supports LLDP Protocol
- > 19 inch rack mountable design
- > ITU-T G.8032 Ethernet Ring Protection Switching (ERPS)
- > MSTP/RSTP/STP (IEEE 802.1s/w/D)

* Small Form-Factor Pluggable Module. Sold separately.

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SPECIFICATIONS

Connectors

Gigabit Combo Ports 100/1000Base-X Ports 1000Base-X Ports Serial Console Port 4 × 10/100/1000Base-T(X) & 100/1000Base-X SFP¹ 20 × SFP¹ 4 × SFP¹ RS-232 in DB9 connector with console cable. 38400bps, 8, N, 1

7 µs

56 Gbps

12 Mbit

4k

256

4

41.7 Mpps

User Defined

Store-and-Forward

16K MAC Addresses

Up to 10K Bytes

ERPS (G.8032) Dual Homing STP RSTP MSTP

Switch Properties

Switching latency Switching bandwidth L2 Forwarding Packet Buffer Max. Available VLANs IGMP multicast groups Port rate limiting Processing Priority Queues Network Redundancy

MAC Table Jumbo Frame

Enhanced Function

Hardware Monitor Code Redundancy Protocol-based VLAN MAC-based VLAN GARP/GVRP IPoE (DHCP option 82) IGMP Statistics/Group Filter **IGMP** Message Filter MVR (Multicast VLAN Registration) **DHCP** Relay PPPoE IA **VLAN Translation** DHCP Option 66/67 Auto Provisioning MLDv2 (Multicast Listener Discovery) PTP (IEEE-1588v2) Static Route SNTP Port Alias DHCPv6 Option 18/37 DHCPv6 Relay UDLD

Network Function

Loop detection with recover timer Static/LACP Trunking IGMP Snooping v1/v2/v3 VLAN Stacking (Q in Q) DHCP Snooping Flow Control

Network Management

Local Console CLI through Console and Telnet Web-based GUI SNMP v1/v2c/v3 Port-based Mirroring System Log SNMP Trap RMON Monitor alarm DDMI support Firmware upgrade Configuration Backup/Restore Management VLAN LLDP E-Mail Alerts

User Security

Static MAC Forwarding ARP Inspection ACL (L2/L3/L4) DHCP Snooping DoS Attack Prevention SSH 802.1x Port Authentication MAC Anti-Spoofing TACACS+

Traffic Management and QoS

Rate Limitation Tag Based/Port-Based VLAN 4K Active VLAN Support 802.1p Priority Queues per port Traffic Classification Network Storm Control QoS Scheduler SP/WRR

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SPECIFICATIONS

Power

Input Power	
Power Consumption	
Overload Current Protection	

Mechanical

Indicating LEDs Size Installation Cooling Weight

Environmental

MTBF Storage Temperature **Operating Temperature** Operating Humidity

100~240 VAC at AC Input with power cord 45 Watts Present

Power, Post, Alarm, 1000Mb, Link/Act 17.33 × 11.18 × 1.73 in (44 × 28.4 × 4.4 cm) Desktop or 19-inch Rack Mount Fan Assisted Cooling, Noise Level 56dB(A) 8 lb / 3.6 kg

>100,000 hours

10% to 90% non-condensing

-20° C to 70° C

0° C to 50° C

AGENCY COMPLIANCE

Ethernet Standards

IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol) IEEE 802.3az Energy Efficient Ethernet IEEE 802.3ad VLAN Stacking IEEE 1588-2008 Precision Time Protocol (PTP) ITU-T G.8032v1/v2 Ethernet Ring Protection Switching (ERPS)

Regulatory Compliance

EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-
	4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS),
	EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1

ORDERING INFORMATION

Part Number	Description	100/1000Base-X Ports ¹		
CWGE28MS	Commercial Grade 28 Port Gigabit Managed Ethernet Switch	20	4	4

[1] Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652 Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

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