



**INCLUDED**



**FLEXIBILITY**



**ALL GIGABIT**



**8 + 16**



The ComNet™ CWGE24MS has eight 100/1000Base-FX SFP ports and sixteen Gigabit combo ports that allow for TX or FX transmission. All SFP ports utilize ComNet SFP\* modules for fiber and connector type and distance. The IEEE802.3-compliant unit offers multiple Ethernet redundancy protocols (ComRing, C-Ring, and MSTP/RSTP/STP) which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The switch provides advanced IP-based management that can limit the maximum bandwidth for each connected IP device, allowing the user to adjust usage. Application-based QoS can set a higher priority for data streaming. The Device-Binding function can prevent unauthorized network access, increasing security. The unit also provides advanced DOS/DDOS auto prevention. If IP flow becomes too large, too quickly, the switch will lock the source IP address for a set period preventing unauthorized access.

## FEATURES

- › 24 Gbps Ports: 8 × 100/1000Base-FX SFP Ports  
16 × Gigabit Combo Ports
- › Fast Redundancy/Recovery; C-Ring (recovery time <20ms over 250 units of connection) and MSTP/RSTP/STP (IEEE 802.1s/w/D)
- › Supports IPV6 new internet protocol version
- › Provided HTTPS/SSH protocol enhances network security
- › Supports SMTP client
- › Supports IP-based bandwidth management
- › Supports application-based QoS management
- › Supports Device Binding security function
- › Supports DOS/DDOS auto prevention
- › IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- › Internal Power Supply
- › Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- › Supports ACL, 802.1x User Authentication for security
- › Supports 9K Bytes Jumbo Frame
- › Multiple notifications warn of unexpected events
- › Web-based, Telnet, Console (CLI), and Windows-based utility (eConsole) configuration
- › Supports LLDP Protocol
- › 19 inch rack mountable design
- › Lifetime Warranty

*\* Small Form-Factor Pluggable Module. Sold separately.*

## SOFTWARE SPECIFICATIONS

<b>Network Redundancy</b>	ComRing C-Ring) Legacy Ring STP RSTP MSTP 8K MAC Addresses Up to 9K Bytes
<b>MAC Table</b>	
<b>Jumbo Frame</b>	
<b>Switch Properties</b>	

Switching latency	7µs
Switching bandwidth	48Gbps
Max. Available VLANs	256
IGMP multicast groups	128 for each VLAN
Port rate limiting	User Defined
<b>Processing</b>	Store-and-Forward
<b>Priority Queues</b>	4

## Security Features

- Device Binding security feature
- Enable/disable ports, MAC based port security
- Port based network access control (802.1x)
- VLAN (802.1Q) to segregate and secure network traffic
- Radius centralized password management
- SNMPv3 encrypted authentication and access security
- SNMP / SSH enhance network security

## AGENCY COMPLIANCE



Low Power Consumption

## HARDWARE SPECIFICATIONS

## Physical Ports

- 16 × Gigabit Combo port with 100/1000Base-T(X) and 100/1000Base-X SFP ports
- 8 × 100/1000Base-X with SFP port

## Serial Console Port

- RS-232 in DB9 connector with console cable.
- 115200bps, 8, N, 1

## LED indicators

- Power Indicators, System Ready, Ring Master, Ring Indicator, Fault Indicator, System Running, Supervisor Login, Reset to Default, Ping Command, 100/1000Base-T(X) RJ45 Port Indicator, 100/1000Base-X SFP Port Indicator

## 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

## HARDWARE SPECIFICATIONS

## Software Features

- STP/RSTP/MSTP (IEEE 802.1D/w/s)
- Redundant Ring (C-Ring) with recovery time less than 20ms over 250 units
- Com-Ring supporting proprietary manufacturer redundancy features
- TOS/Diffserv supported
- Quality of Service (802.1p) for real-time traffic
- VLAN (802.1Q) with VLAN tagging and GVRP supported
- IGMP Snooping
- IP-based bandwidth management
- Application-based QoS management
- DOS/DDOS auto prevention
- Port configuration, status, statistics, monitoring, security
- DHCP Client/Server
- SMTP Client

## 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)

## Power

Input Power	Redundant 100~240VAC at AC Input with power cord or dual 36~72VDC on 6-Pin Terminal Block
Fault Relay Output	24V @ 3A
Power Consumption (Typ.)	33 Watts
Overload Current Protection	Present

## Mechanical

Size	43.1 × 34.2 × 4.4cm (17 × 13.5 × 1.7 in)
Weight	4.3Kg / 9.5lb

## Environmental

Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	0 to 50°C (32 to 122°F)
Operating Humidity	5% to 95% Non-condensing
MTBF	>100,000 hours
Installation	Desktop or 19-inch Rack Mount

[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

## ORDERING INFORMATION

Part Number	Description	100/1000FX Ports	Combo Ports
CWGE24MS	Commercial Grade 24 Port Gigabit Managed Ethernet Switch	8	16

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