

modular 26 port managed Ethernet switch with up to 24-port 10/100T(X) or 100FX and 2-port 10/100/1000T(X) or 1000FX



## Description

The ComNet™ CWGE2FE24MODMS Managed Ethernet Switch chassis provides up to twenty-six ports of Ethernet connectivity through the use of three eight-port expansion modules and two rear-mounted fixed combo ports. This Ethernet switch is easily configurable by selecting, sold separately, eight port modules that allow for all copper, or all optical with SFP modules making the CWGE2FE24MODMS switch available for use with either conventional UTP copper or fiber media. The twenty-four modular ports support the 10/100 Mbps electrical or 100Mbps optical Ethernet IEEE 802.3 protocol. Auto-negotiating and auto-MDI/MDIX features are provided for simplicity and ease of installation on electrical ports. Two additional ports are Gigabit combo SFP ports. These network managed layer 2 switches are optically and electrically compatible with IEEE 802.3 compliant Ethernet devices. Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required. The CWGE2FE24MODMS incorporates LED indicators for monitoring the operating status of the managed switch and network. These units are rack mountable. The CWGE2FE24MODMS and its corresponding modules are designed for installation in benign (0° - +45° C) operating environments, with an extended temperature model available.

## Features

- 10/100 BASE-TX and 100 BASE-FX compatible
- Flexible Ethernet interface configuration via plug-in modules
- Fully configurable through web-based or SNMP network management
- IGMP Snooping V1/V2 for multicast filtering and IGMP Query V1/V2
- Tagged VLAN (IEEE 802.1Q)
- Rapid Spanning Tree protocol (IEEE 802.1w)
- Five Year Warranty

(SFP) = Small Form-Factor Pluggable Module (sold separately)

## specifications

### benefits

#### System Interface/Performance

- RJ45 port support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 8.8Gbps
- 4Mbits Packet Buffer
- 8K MAC Address Table

#### 3-Slot Module Hot-Swappable

- 8 port 10/100TX module
- 8 port 100Mbps SFP (SFP) module

#### VLAN

- Port Based VLAN
- Support 802.1 Q Tag VLAN
- GVRP

#### X-Ring

- X-Ring, Dual Homing and Couple Ring Topology
- Provide redundant backup feature and the recovery time below 300ms

#### IEEE 802.3ad Port Trunk with LACP

#### Support up to 256 Policy ACL (Access Control List)

#### QoS (Quality of Service)

- Support IEEE 802.1p Class of Service,
- Per port provides 4 priority queues
- Port Base, Tag Base and Type of Service Priority

#### Support IEEE 802.1ab LLDP

#### Port Mirror: Monitor traffic in switched networks

- TX Packet only
- RX Packet only
- Both of TX and RX Packet

#### System Event Log

- System Log (Local/Remote Server)
- SMTP e-mail Alert

#### Security

- Port Security: MAC address entries/filter
- IP Security: IP address security management to prevent unauthorized intruder.
- Login Security: IEE E802.1X/RADIUS

#### SNMP Trap

- Device cold start
- Power status
- Authentication failure
- Port Link up/Link down

#### IGMP with Query mode for Multi Media Application

#### TFTP Firmware Update and System Configure Restore and Backup

#### Broadcast/Multicast Packet Filter Control

#### IEEE 802.1w Rapid Spanning Tree

#### STANDARD COMPLIANCE

- IEEE 802.3ad Port trunk with LACP
- IEEE 802.1d Spanning tree protocol
- IEEE 802.1w Rapid Spanning tree protocol
- IEEE 802.1p Class of service
- IEEE 802.1q VLAN Tagging
- IEEE 802.1x User authentication
- IEEE 802.1ab LLDP

specifications

hardware specifications

<b>Switch Architecture</b>	Back-plane (Switching Fabric): 8.8Gbps	<b>Power Supply</b>	100~240VAC, 50 /60Hz, 0.8A (maximum)
<b>Connector*</b>	RS232 console: Female DB-9 8-port 10/100TX module: RJ45 8-port 100 FX SFP module 2 Gbit Copper + 2 SFPCombo: 2 × RJ45 + 2 × 3.3v SFP built-in	<b>Power Consumption</b>	50 Watts (maximum)
<b>Packet Buffer</b>	4Mbits	<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Mac Address</b>	8K MAC address table with auto learning function	<b>Operating Temperature</b>	0°C to 45°C -40° to 75° C model available
<b>Flash ROM</b>	4Mbytes	<b>Storage Humidity</b>	5% to 95% (Non-condensing)
<b>DRAM</b>	16Mbytes	<b>Storage Temperature</b>	-40°C to 70°C
<b>Jumbo Frame</b>	9022 bytes (Gigabit ports only)	<b>Ventilation</b>	2 × DC cooling fan with fail detection
<b>LED</b>	System Power(Green ) 8 10/100TX module: Link/Activity (Green), Full duplex/ collision(Amber) 8 100Base-FX module: Link (Green)/Activity (Blink) SFP: Link/Activity(Green), 1000Mbps (Green)	<b>Case Dimensions</b>	440mm (W) × 280mm (D) × 44mm (H) 17.3" (W) × 11.0" (D) × 1.7" (H)
		<b>Installation</b>	19" Rack Mount
		<b>EMI</b>	FCC Class A, CE
		<b>Safety</b>	UL, cUL, CE/EN60950-1

\* 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

PART NUMBER	DESCRIPTION
CWGE2FE24MODMS/Chassis	3 Slot Managed Switch – Chassis Only
CWGE2FE24MOD/8TX	8 port 10/100TX module with RJ45 receptacles
CWGE2FE24MOD/8SFP	8 port 100Mbps module with SFP receptacles
Accessories	/HT Extended operating temperature model available 100-240VAC, 50/60Hz Power Supply (Included)



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.

## specifications

### software features

#### Management

SNMP v1 v2c, v3/ Web/Telnet/CLI/RMON1 Management

#### MIB

RFC 3418 SNMP MIB, RFC 1213 MIBII, RFC 2011 MIB SNMP v2, RFC 1493 Bridge MIB, RFC 2674 VLAN, RFC 1215 Trap MIB, RFC 1643 Ethernet like, RFC 1757 RMON1, RSTP MIB, LLDP MIB, Private MIB

#### SNMP Trap

Cold start trap, Link down/Link up trap, Authentication fail trap, Fan fail trap, Power event trap

#### X-Ring

X-Ring, Dual Homing and Couple Ring Topology  
Provide redundant backup feature and the recovery time below 300ms

#### Configuration upload and download

System quick installation and backup by TFTP

#### Port Trunk

Support IEEE802.3ad with LACP function. Up to 13 trunk groups, trunk member up to 4 ports and include 2 uplink ports

#### Spanning Tree

IEEE802.1d spanning Tree, IEEE802.1w Rapid Spanning tree protocol

#### VLAN

Port based VLAN, up to 256 groups  
IEEE 802.1Q Tag VLAN  
Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 1 to 4094.  
GVRP up to 256 groups

#### Quality of Service

The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Different Service

#### Class of Service

Support IEEE802.1p class of service, per port provides 4 priority queues

#### IGMP

Supports IGMP V1 and V2 snooping.  
IGMP Snooping for Multi-Media application, IGMP group supports 256 groups and IGMP query

#### Port Security

Support 50 entries of MAC address for static MAC and another 50 for MAC filter

#### Port Mirror

Support 3 mirroring types: RX, TX and Both packet

#### Bandwidth Control

Per port support ingress rate limiting and egress rate shaping control. The rate limiting and rate shaping can be setting from 0~100Mbps

#### Access Control List (ACL)

Support up to 256 policy control lists

#### IP Security

Support IP address security to prevent unauthorized intruder.

#### DHCP

DHCP Client/Server

#### DNS

Provide DNS client feature and support primary and Secondary DNS server

#### System Log

Provide remote storage ability and also can view the log by Web/Telnet/ SNMP interface. Maximum entry support 1000 records

#### SNTP

Support SNTP to synchronize system clock by Internet

#### SMTP

System supports 6 mail accounts and 1 Mail server

#### LLDP

Support IEEE 802.1ab Link Layer Discovery Protocol

#### Firmware Upgrade

TFTP and Console firmware upgradeable