



ValueLine CWGE24MODMS







INCLUDED

FLEXIBILITY



The ComNet™ CWGE24MODMS managed Ethernet switch chassis provides transmission of (24) Ethernet Ports with the use of three eight port expansion modules. This Ethernet switch is easily configurable by selecting, sold separately, eight port modules that allow for all copper, optical with four copper and four SFP modules, or all optical with SFP* modules making the CWGE24MODMS switch available for use with either conventional CAT-5e copper or optical transmission media. When configured with eight-port modules that contain electrical ports, those port support 10/100/1000 Mbps Ethernet IEEE 802.3 protocol, and autonegotiation and auto-MIDI/MIDX features are provided for simplicity and ease of installation. When configured with the CWGE24MOD/8FXSFP eight-port module that contains SFP optical ports, those ports operate at 1000 Mbps. The CWGE24MODMS and its corresponding modules are designed for installation in benign (0° to +45° C) operating environments.

FEATURES

- > 10/100/1000 BASE-TX and 1000 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
- These layer 2 managed switches are optically (1000 BASE-FX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices.
- > Port based VLAN (IEEE 802.1Q)

- > Rapid Spanning Tree protocol (IEEE 802.1w)
- > Internal Power Supply 100-240VAC Input
- > LED status indicators confirm operating status of the managed switch and network
- > Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required.
- > Low-profile 1-RU (1.75 in) high rack-mountable chassis mounts within any standard 19-inch equipment rack
- > Operating Temperature Range of 0° C to 45° C
- > Five Year Warranty
- * Small Form-Factor Pluggable Module. Sold separately.

BENEFITS

System Interface/Performance - Store-and-Forward Switching Architecture

- Back-plane (Switching Fabric): 48Gbps

- 6Mbits Packet Buffer- 16K MAC Address Table- 10K Jumbo Frame

3-Slot Gbps Module Hot-Swappable - 8 x 10/100/1000T RJ45

8 x 1000FX Fiber SC - 8 x 1000FX SFP

- 4 x 10/100/1000T RJ45 + 4 x 1000FX SFP - Support IEEE802.1w Rapid Spanning Tree

VLAN - Port Based VLAN

- Support 802.1 Q Tag VLAN

- GVRP

SNMP - SNMP v1/v2c

- SNMP Trap

Bandwidth Control - Ingress Packet Filter and Egress Rate Limit

Port Trunk with LACP

Port Trunk with LACP

Spanning Tree

Security - Port Security: MAC address entries/filter

- IP Security: IP address security management to

prevent unauthorized intruder
- Login Security: IEEE802.1X/RADIUS

QoS (Quality of Service) - 8 Priority Queues

- Strict and WRR priority rule

- Port Base, Tag Base, IPv4 Type of Service and

IPv4 Different service

IGMP - IGMP v1/v2

- 256 multicast groups and IGMP query
Port Mirror Monitor traffic in switched networks

TX packet onlyRX packet onlyBoth TX and RX packet

System Event Log - System Log (Local/Remote Server)

- SMTP e-mail Alert

LLDP - IEEE 802.1ab Link Layer Discovery Protocol

Access Control List

Standard Compliance - IEEE802.3 10Base-T Ethernet

- IEEE802.3u 100Base-TX/100Base-FX

- IEEE802.3z Gigabit fiber - IEEE802.3ab 1000Base-T

- IEEE802.3x Flow Control and Back Pressure - IEEE802.3ad Port trunk with LACP - IEEE802.1w Rapid Spanning Tree - IEEE802.1p Class of Service - IEEE802.1q VLAN Tagging

- IEEE802.1x User Authentication

- IEEE802.1ab LLDP

SOFTWARE FEATURES

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

Management

SNMP MIB RFC 2863 Interface Group MIB, RFC 1213 MIBII,

RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 Ethernet Like MIB, RFC 1215 Trap MIB, RFC

1757 RMON MIB, Private MIB

SNMP Trap Cold start/Warm start trap, Link down/Link up

trap, Authentication fail trap

Flow Control IEEE802.3x Flow control: Flow control for

10/100/1000 full duplex, Back pressure for

10/100 half duplex

VLAN Port based VLAN, up to 24 groups

IEEE802.1Q Tag VLAN

Static VLAN groups up to 256, Dynamic VLAN

group up to 2048,

VLAN ID from 1 to 4094. GVRP (future release).

IEEE802.3ad with LACP function. Up to 7 trunk
groups with failover feature and the member up

to 8 ports.

Spanning Tree Support IEEE802.1w Rapid Spanning Tree

Quality of Service The quality of service determined by port, Tag and

IPv4 Type of Service, IPv4 Different Service

Class of Service Per port 8 priority queues and support strict and

WRR priority rule.

Weight round ratio (WRR): 1:2:3:4:5:6:7:8 Weight round ratio (WRR): 1:1:2:2:3:3:4:4 Weight round ratio (WRR): 1:1:2:2:4:4:8:8 IGMP Support IGMP snooping v1, v2; 256 multicast

groups and IGMP query

Port Security Support 128 entries of MAC address for static

MAC and another 128 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.

IP Security IP address security to prevent unauthorized

intruder.

Login Security Support IEEE802.1X User Authentication and

can report to RADIUS server: Reject, Accept,

Authorize, Disable

Destination IP

DHCP DHCP Client/ DHCP Server/

DNS Provide DNS client feature and support primary

and Secondary DNS server

SNTP Support RFC 2030 SNTP client

LLDP

SMTP System supports 5 mail accounts as receivers and

2 Mail servers for Primary and Secondary. The SMTP will auto send event message to supervisor whom is pre-defined in the SMTP system through

the pre-defined mail server.

Support IEEE 802.1ab Link Layer Discovery

Protocol

SPECIFICATIONS

Switch Architecture Back-plane (Switching Fabric): 48Gbps

Connectors¹

RS232 Console $1 \times DB-9$ Female CWGE24MOD/8TX: $8 \times RJ45$ CWGE24MOD/8FXSFP: $8 \times SFP$ port

CWGE24MOD/8FXSC(M)(S)1: $8 \times SC$ for Gigabit SX or LX CWGE24MOD/8TX4SFP4: $4 \times RJ45 + 4 \times SFP$

Packet Buffer 6Mbits

Mac Address 16K MAC address table

Jumbo Frame 10 KB

Indicating LEDs System Power

Gigabit Copper Module: Link/Activity, Speed

Gigabit Fiber Module: Link/Activity
SFP Module: Link/Activity
Gigabit Copper + SFP Module:

RJ45: Link/Activity, Speed (10/100/1000 Mbps); SFP: Link/Activity, Speed

Power

Power Supply AC 100 V~240 V 50/60 Hz

Optional Redundant Power: DC (12 V~48 V)

Power Consumption 35 W

Electrical & Mechanical

Case Dimensions $17.32 \times 11.0 \times 1.73 \text{ in } (44 \times 28 \times 4.4 \text{ cm})$

Installation 19" Rack Mount

Environmental

Operating Temperature 0° C to 45° C
Storage Temperature -40° C to 70° C
Ventilation 2 Fans

Operating Humidity 5% to 95% (Non-condensing)
Storage Humidity 5% to 95% (Non-condensing)

EMI FCC Class A, CE

[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
CWGE24MODMS/Chassis	3 Slot Gigabit Managed Switch - Chassis Only
CWGE24MOD/8TX	8 × 10/100/1000T - Module Only
CWGE24MOD/8FXSCM1 ²	8 × 1000FX (SC, MM 550m) – Module Only
CWGE24MOD/8FXSCS1 ²	8 × 1000FX (SC, SM 10km) - Module Only
CWGE24MOD/8FXSFP2	8 × SFP - Module Only (requires purchase of SFP modules, see SFP Data Sheet for availability)
CWGE24MOD/8TX4SFP4 ²	4 × 10/100/1000T + 4 SFP - Module Only (requires purchase of SFP modules, see SFP Data Sheet for availability)
Included Accessories	100-240VAC, 50/60Hz Power Supply (Included)
Options	Redundant Power: DC (12V~48V) (Optional)

[2] This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J.

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



