

modular 24 port gigabit managed Ethernet switch



Description

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 auto-negotiation and auto-MIDI/MIDX features are provided for simplicity and ease of installation. When configured with eight-port module that contain SFP optical ports, those ports operate at 1000 Mbps. These layer 2 managed switches are optically (1000 BASE-FX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices. Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required. The CWGE24MODMS incorporates LED indicators for monitoring the operating status of the managed switch and network. The CWGE24MODMS and its corresponding modules are designed for installation in benign (0° - +45° C) operating environments, with an extended temperature model available..

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
- Port based VLAN (IEEE 802.1Q)
- Rapid Spanning Tree protocol (IEEE 802.1w)
- Internal Power Supply 100-240VAC Input
- Five Year Warranty

(SFP) = 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 Gigabit 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

Spanning Tree

- 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

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 only
- RX packet only
- Both 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

specifications

hardware specifications

Switch Architecture	Back-plane (Switching Fabric): 48Gbps	Power Supply	AC 100V~240V 50/60Hz Optional Redundant Power: DC (12V~48V)
Connector*	RS232 Console: 1 × DB-9 Female CWGE24MOD/8TX: 8 × RJ45 CWGE24MOD/8FXSFP: 8 × SFP port CWGE24MOD/8FXSC(M)(S)1: 8 x SC for Gigabit SX or LX CWGE24MOD/8TX4SFP4: 4 × RJ45 + 4 × SFP	Power Consumption	35 Watts
Packet Buffer	6Mbits	Operating Humidity	5% to 95% (Non-condensing)
Mac Address	16K MAC address table	Operating Temperature	0°C to 45°C -40° to 75° C model available
Jumbo Frame	10 KB	Storage Humidity	5% to 95% (Non-condensing)
LED	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	Storage Temperature	-40°C to 70°C
		Ventilation	2 Fans
		Case Dimensions	440mm (W) × 280mm (D) × 44mm (H) 17.32" (W) × 11.0" (D) × 1.73" (H)
		Installation	19" Rack Mount
		EMI	FCC Class A, CE

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



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.

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).

Port Trunk with LACP

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

Access Control List (ACL)

The system provides control list on Source IP & 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

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.

LLDP

Support IEEE 802.1ab Link Layer Discovery Protocol