POWER SUPPLY
INCLUDED

10/100 ETHERNET
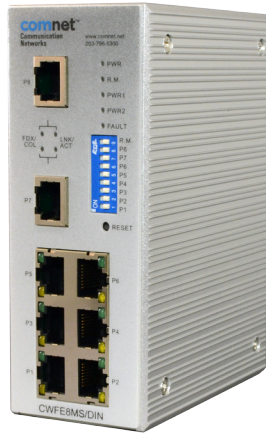8

The ComNet™ CWFE8MS/DIN Managed Ethernet Switch provides transmission of 10/100 BASE-T Ethernet data. These units are available for use with conventional CAT-5e copper transmission media. Up to 8 electrical ports for easily implementing point-to-point, linear add-drop, drop-and-repeat, star or true self-healing ring and mesh network system architectures. The electrical ports support the 10/100 Mbps (10/100 BASE-TX) Ethernet IEEE 802.3 protocol, and auto-negotiating and auto- MDI/MDIX features are provided for simplicity and ease of installation. Plug-and-play design ensures ease of installation, and no electrical adjustments are ever required.

FEATURES

› Industrial Grade

› Ambient operating temperature range: -10° C to +70° C

› 10/100 BASE-T compatible

› DIN Rail or Wall Mounted

› Relay Alarm

› Fully configurable through web-based or SNMP network management

› IGMP Snooping V1 for multicast filtering and IGMP Query V1/V2

› Port based VLAN (IEEE 802.1Q)

› Rapid Spanning Tree protocol (IEEE 802.1W)

› Indicating LEDs provide rapid indication of critical operating parameters

› Five Year Warranty

APPLICATIONS

› Industrial and Factory Automation

› Integrated IP-Video and Data Transmission Networks

› Industrial Security Access Control Systems

Industrial Grade Managed Ethernet Switch with (8) 10/100TX ports

SPECIFICATIONS

Benefits

System Interface/Performance

RJ-45 port support Auto MDI/MDI-X Function
Store-and-Forward Switching Architecture
Back-plane (Switching Fabric): 1.6Gbps
1Mbits Packet Buffer
2K MAC Address Table

Case/Installation

IP-30 Protection
DIN Rail and Wall Mount Design
Power Supply
Wide-range Redundant Power Design
Power Polarity Reverse Protect

Spanning Tree

Support IEEE802.1d Spanning Tree
Support IEEE802.1w Rapid Spanning Tree
VLAN
Port Based VLAN
Support 802.1 Q Tag VLAN

X-Ring

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

Bandwidth Control

Ingress Packet Filter and Egress Rate Limit
Broadcast/Multicast Packet Filter Control
Port Mirror: Monitor traffic in switched networks
TX Packet only
Both TX and RX Packet

System Event Log

System Log Server/Client
SMTP e-mail Alert
Relay Alarm Output System Events
IP Security: IP address security management to
prevent unauthorized intruder

SNMP Trap

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

Device cold start
Power status
Authentication failure
X-Ring topology changed
Port Link up/Link down

IGMP with Query mode for Multi Media Application

Hardware Specifications

TFTP Firmware Update and System Configure Restore and Backup

IEEE Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE802.3x Flow Control and Back Pressure
	IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree
	IEEE802.1p Class of Service
	IEEE802.1Q VLAN Tag
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps
Packet throughput ability (Full-Duplex)	2.38Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
Memory Buffer	1Mbits
Mac Address	2K MAC address table
Flash ROM	512Kbytes
DRAM	8Mbytes
Connector	10/100TX: 8 x RJ-45 with auto MDI/ MDI-X function
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
	100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
Protocol	CSMA/CD
LED	Per port: Link/Activity (Green), Full duplex/ Collision (Yellow)
	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green)
Power Supply	12 to 48VDC
	Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
Power Consumption	6W
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	-10° to 70°C
Storage Temperature	-40° to 85°C
Enclosure	IP-30 Case protection
Dimension (W × D × H)	2.13 × 4.13 × 5.31 in (5.4 × 10.5 × 13.5cm)
Installation	DIN rail (35 mm Track) or wall mount (Mounting Kit Included)
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Safety	UL, cUL, CE/EN60950-1
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

Software Features

Management	SNMP v1 v2c, Web interface management
SNMP MIB	RFC 1213 MIBII, RFC 1493 Bridge MIB, RMON RFC 1757, RFC 2674 VLAN MIB, RFC 1643 Ethernet like MIB, RFC1215 Trap MIB, IGMP MIB Private MIB for switch information, X-Ring, port alarm, TFTP firmware upgrade, reset, port mirror, IP security
VLAN	Support Port based VLAN and IEEE802.1Q Tag VLAN Both port based and Tag based VLAN group up to 64 VLANs
Spanning Tree	Support IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree
X-Ring	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	Support X-Ring, Dual Homing, and Couple Ring Provide redundant backup feature and the recovery time <300ms
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service
Class of Service	Support IEEE802.1p class of service, per port provides 4 priority queues
Port Mirror	Support TX packet only or both TX and RX packet
IGMP	Support IGMP v1 and Query mode. Up to 256 groups
IP Security	Support 10 IP addresses that have permission to access the switch management
Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type and the limit rates are 128Kbps, 256Kbps, 512Kbps, 1Mbps, 2Mbps, 4Mbps, and 8Mbps. Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set follow as: 1Mbps, 2Mbps, 4Mbps, 8Mbps, 16Mbps, 32Mbps, 64Mbps
Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Support System log record and remote system log server
SMTP	Support SMTP Server and 4 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail and provide DIP switch to mask link down port Alarm Relay current carry ability: 1A @ DC24V
SNMP Trap	Up to 3 Trap stations Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, Port Alarm configuration, Fault alarm, X-Ring topology change
DHCP	Provide DHCP client function to obtain IP address from DHCP server
SNTP	Support SNTP to synchronize system clock in Internet
Firmware Update	Support TFTP firmware update, TFTP backup and restore
Configuration Upload and Dowload	Support text format configuration file for system quick installation

ORDERING INFORMATION

Part Number	Description
CWFE8MS/DIN	Industrial grade managed Ethernet switch with (8) 10/100TX ports
Accessories	DC Plug-in Power Supply (Included) DIN rail kit and wall mount ear for wall mount or DIN-type cabinet install (Included)

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   RoHS COMPLIANT   N24621

Low Power Consumption

30 Apr 2015