

industrial grade managed  
Ethernet switch with (8) 10/100TX ports



## Description

The ComWorx™ 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. The CWFE8MS/DIN incorporates LED indicators for monitoring the operating status of the managed switch and network.

## 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)
- Five Year Warranty

## Applications

- Industrial and Factory Automation
- Integrated IP-Video and Data Transmission Networks
- Industrial Security Access Control Systems

## specifications

## benefits

<b>System Interface/ Performance</b>	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
<b>Case/Installation</b>	IP-30 Protection DIN Rail and Wall Mount Design Power Supply Wide-range Redundant Power Design Power Polarity Reverse Protect
<b>Spanning Tree</b>	Support IEEE802.1d Spanning Tree Support IEEE802.1w Rapid Spanning Tree VLAN Port Based VLAN Support 802.1 Q Tag VLAN
<b>X-Ring</b>	X-Ring, Dual Homing, and Couple Ring Topology Provide redundant backup feature and the recovery time below 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
<b>Bandwidth Control</b>	Ingress Packet Filter and Egress Rate Limit Broadcast/Multicast Packet Filter Control Port Mirror: Monitor traffic in switched networks TX Packet only Both of TX and RX Packet
<b>System Event Log</b>	System Log Server/Client SMTP e-mail Alert Relay Alarm Output System Events IP Security : IP address security management to prevent unauthorized intruder
<b>SNMP Trap</b>	Device cold start Power status Authentication failure X-Ring topology changed Port Link up/Link down
<b>IGMP with Query mode for Multi Media Application</b>	

## hardware specifications

<b>TFTP Firmware Update and System Configure Restore and Backup</b>	
<b>IEEE Standard</b>	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
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 1.6Gbps
<b>Packet throughput ability (Full-Duplex):</b>	2.38Mpps @64bytes
<b>Transfer Rate</b>	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
<b>Memory Buffer</b>	1Mbits
<b>Mac Address</b>	2K MAC address table
<b>Flash ROM</b>	512Kbytes
<b>DRAM</b>	8Mbytes
<b>Connector</b>	10/100TX: 8 x RJ-45 with auto MDI/ MDI-X function
<b>Network Cable</b>	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
<b>LED</b>	Per port: Link/Activity (Green), Full duplex/Collision (Yellow) Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green)
<b>Power Supply</b>	DC 12~48V, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
<b>Power Consumption</b>	6 Watts
<b>Operating Humidity</b>	5%~95% (Non-condensing)
<b>Operating Temperature</b>	Standard: -10°~70°C
<b>Storage Temperature</b>	-40°~85°C
<b>Case Dimension</b>	IP-30 Case protection, 54mm (W) x 105mm (D) x 135mm (H)

specifications

hardware specifications (cont'd)

<b>Installation</b>	Provide DIN rail kit and wall mount ear for wall mount or DIN-type cabinet install
<b>EMI</b>	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
<b>Safety</b>	UL, cUL, CE/EN60950-1
<b>Stability Testing</b>	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

software features

<b>Management</b>	SNMP v1 v2c, Web interface management
<b>SNMP MIB</b>	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
<b>VLAN</b>	Support Port based VLAN and IEEE802.1Q Tag VLAN Both of port based and Tag based VLAN group up to 64 VLANs
<b>Spanning Tree</b>	Support IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree
<b>X-Ring</b>	Support X-Ring, Dual Homing, and Couple Ring Provide redundant backup feature and the recovery time below 300ms
<b>Quality of Service</b>	The quality of service determined by port, Tag and IPv4 Type of service
<b>Class of Service</b>	Support IEEE802.1p class of service, per port provides 4 priority queues
<b>Port Mirror</b>	Support TX packet only or both TX and RX packet
<b>IGMP</b>	Support IGMP v1 and Query mode. Up to 256 groups
<b>IP Security</b>	Support 10 IP addresses that have permission to access the switch management

<b>Bandwidth Control</b>	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
<b>Flow Control</b>	Support Flow Control for Full-duplex and Back Pressure for Half-duplex
<b>System Log</b>	Support System log record and remote system log server
<b>SMTP</b>	Support SMTP Server and 4 e-mail accounts for receiving event alert
<b>Relay Alarm</b>	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
<b>SNMP Trap</b>	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
<b>DHCP</b>	Provide DHCP client function to obtain IP address from DHCP server
<b>SNTP</b>	Support SNTP to synchronize system clock in Internet
<b>Firmware Update</b>	Support TFTP firmware update, TFTP backup and restore
<b>Configuration upload and download</b>	Support text format configuration file for system quick installation

PART NUMBER	DESCRIPTION
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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.



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