



E-COM SWITCH MANAGED

7X10/100TX + COMBO: 3X10/100/1000T + 3X100/1000 SFP

IEEE Standard	IEEE 802.3 10Base-T Ethernet / IEEE 802.3u 100Base-TX / IEEE 802.1ab LLDP IEEE 802.3ab 1000Base-T / IEEE 802.3z Gigabit fiber / IEEE 802.1p Class of Service IEEE 802.3x Flow Control and Backpressure / IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning Tree / IEEE 802.1w Rapid Spanning Tree / IEEE 802.1Q VLAN Tag IEEE 802.1x User Authentication (Radius)
Switch Architecture	Back-plane (Switching Fabric): 7.4 Gbps Packet throughput ability (Full-Duplex): 11 Mpps @ 64 bytes
Transfer Rate	14,880 pps for Ethernet port 148,800 pps for Fast Ethernet port 1,488,000 pps for Gigabit Fiber Ethernet port
Packet Buffer	1 Mbits
MAC Address	8K MAC address table
Connector	10/100TX: 7 x RJ-45 10/100/1000T/Mini-GBIC Combo: 3 x RJ-45 + 3 x 100/1000 SFP sockets RS-232 connector: RJ-45 type
DI/DO	2 Digital Input (DI) : Level 0: -30 – 2 V, Level 1 : 10 – 30 V, Max. input current: 8 mA 2 Digital Output (DO): Open collector to 40 VDC, 200 mA
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable / EIA/TIA-568 100 Ohm (100 m) 100Base-TX: 2-pair UTP/STP Cat. 5 / 5E cable / EIA/TIA-568 100 Ohm (100 m) 1000Base-TX: 2-pair UTP/STP Cat. 5e or 6 cable / EIA/TIA-568 100 Ohm (100 m)
Optical Fiber	Multimode: 50 / 125 µm – 62.5 / 125 µm Singlemode: 9 / 125 µm
Protocol	CSMA/CD
LED	Per unit: Power (green), Power 1 (green), Power 2 (green), fault (red), Master (green) 10/100TX : Link / Activity (green), Full duplex/Collision (yellow) Giga Copper: Link / Activity (green), Speed (1000 Mbps green) SFP: Link / Activity (green)
Power Supply	12 – 48 VDC Redundant power with polarity reverse protect function and removable terminal block
Power Consumption	10.2 Watts (Open issue)
Operating Humidity	5 % to 95 % (Non-condensing)
Operating Temperature	Standard -10 °C – 60 °C / Wide Operating Temperature -40 °C – +75 °C
Storage Temperature	-40 °C to 85 °C
Case Dimension	Metal case. IP-30, 72 mm (W) x 105 mm (D) x 152 mm (H)
Installation	DIN Rail and Wall Mount Design
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 EN61000-6-2, 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)

Management	SNMP v1 v2c, v3/Web/Telnet/CLI/NS-View Management
SNMP MIB	RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 , RFC 1757, RSTP MIB, Private MIB
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries) / VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups)
Port Trunk with LACP	LACP Port Trunk: 4 Trunk groups / Maximum 4 Trunk members
LLDP	Support LLDP to allow switch to advise its identification and capability on the LAN
Spanning Tree	Support IEEE 802.1w Rapid Spanning Tree
Ring	Support Ring, Dual Homing, Couple Ring and Dual Ring Topology Provide redundant backup feature and the recovery time below 20 ms.
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 / IPv6 Different Service
Class of Service	Support IEEE 802.1p class of service, per port provides 4 priority queues
Port Security	Support 100 entries of MAC Address for static MAC and another 100 for MAC Filter
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
IGMP	Support IGMP snooping v1,v2 256 multicast groups and IGMP query Support multicast filter
IP Security	Support 10 IP Addresses that have permission to access the switch management and to prevent unauthorized intruder.
Login Security	Support IEEE 802.1X Authentication / RADIUS
Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type and the limit rates are 100 K – 250 Mbps 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 from 100 k to 250 Mbps.
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 6 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail Alarm Relay current carry ability: 1A @ DC 24 V
DIDO	DO: When disconnection of the specific port was detected, DO will activate the signal LED to alarm. DI: Integrate critical sensors: 2 groups of digital inputs. DI can integrate the sensors into the auto alarm system and transfer the alarm information to IP network with email and SNMP.
SNMP Trap	Supports up to 3 trap receivers Supported traps: Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, Port Alarm configuration, Fault alarm, Ring topology change
DHCP	Provide DHCP Client, DHCP Server and IP Relay
DNS	Provide DNS Client feature and support Primary and Secondary DNS server
SNTP	Support SNTP to synchronize system clock in Internet
Firmware Update, configuration backup and restore	Support TFTP firmware update, System configure backup and restore
ifAlias	Each port allows importing 128 bit of alphabetic string of word on SNMP and CLI interface.

** Optional

Part Number	Description
261770300E	Industrial Ethernet Switch (Managed / Ring) -40 °C – +75 °C

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