8x10/100TX + 2x100FX Industrial Ethernet Switch (Managed / Ring)



Benefits

 System Interface/Performance RJ-45 port support Auto MDI/MDI-X Function Store-and-Forward Switching Architecture Back-plane (Switching Fabric): 2Gbps 1Mbits Packet Buffer 8K MAC Address Table 	 ■ Case/Installation ➤ IP-30 Protection ➤ DIN Rail and Wall Mount Design
 Power Supply ➢ Input Power Isolation design for Telcom application, Pass Hi-Pot test~1.5KV ➢ 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 → GVRP → Double Tag VLAN (Q in Q)* → Private VLAN** 	 Ring Ring, Dual Homing, and Couple Ring Topology Provide redundant backup feature and the recovery time below 300ms
■ Port Trunk with LACP	■ Support 802.1ab LLDP**
 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 RX Packet only Both of TX and RX Packet 	■ System Event Log
 Security Port Sercurity: MAC address entries/filter IP Sercurity: IP address security management to prevent unauthorized intruder. Login Security: IEEE802.1X/RADIUS 	■ SNMP Trap
	Port Link up/Link down



Standard Compliance

IEEE Standard IEEE 802.3 10Base-T Ethernet

IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet

IEEE802.3x Flow Control and Back Pressure

IEEE802.3ad Port trunk with LACP

IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree

IEEE802.1p Class of Service IEEE802.1Q VLAN Tag

IEEE 802.1x User Authentication (Radius)

IEEE802.1ab LLDP**

RFC Standard RFC2030 SNTP, RFC 2821 SMTP, RFC 1215 Trap, RFC2233 MIBII, RFC 1157 SNMP MIB,

RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 2665 Ethernet like MIB, RFC 2819 RMON

MIB, Private MIB

Hardware Specification

Switch Architecture	Back-plane (Switching Fabric): 2Gbps Packet throughput ability (Full-Duplex): 2.976Mpps @64bytes			
Transfer Rate	14,880pps for Ethernet port			
Transfer Tate	148,800pps for Fast Ethernet port			
Packet Buffer	1Mbits			
Mac Address	8K MAC address table			
Flash ROM	4Mbytes			
DRAM	32Mbytes			
Connector	10/100TX: 8 x RJ-45 with auto MDI/MDI-X function			
	100M fiber: 2 x SC type connector for Singlemode or Multimode type fiber cable			
	RS-232 connector: RJ-45 type			
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/ 5E cable			
	EIA/TIA-568 100-ohm (100m)			
Optical Cable	Multimode: 50/125μm~62.5/125μm			
	Single mode: 9/125µm			
	Available distance: 2km (Multimode) / 30km (Singlemode)			
Protocol	Wavelength: 1310nm (Multimode/Singlemode) CSMA/CD			
FIOLOCOI				
LED	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Orange), Master (Green)			
	8 10/100: Link/Activity (Green), Full duplex/Collision (Orange) Fiber: Link/Activity (Green)			
Power Supply	DC 24 ~48V			
Fower Suppry	Redundant power with polarity reverse protect function and removable terminal block			
	Input Power Isolation design for Telcom application, Pass Hi-Pot test~1.5KV			
Power Consumption	9.54Watt			
Operating Humidity	5% to 95% (Non-condensing)			
Operating Temperature	Standard 0°C to 60°C			
, , ,	Wide Operating Temperature -40°C~75°C)			
Storage Temperature	-40°C to 85°C			
Case Dimension	IP-30, 72mm (W) x 105mm (D) x 152mm (H)			
Fan Number	0			
Installation	DIN rail and wall mount ear.			
EMI	FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN-61000-4-4, CE EN61000-4-5, CE			
0.11	EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12			
Safety	UL, CUL, CE/EN60950-1			
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)			

Software Feature

Software Feature			
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven** 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) Double Tag VLAN (Q in Q)* Private VLAN**		
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 IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree		
Ring	Support Ring, Dual Homing, and Couple Ring Provide redundant backup feature and the recovery time below 300ms		
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service		
Class of Service	Support IEEE802.1p 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		
IP Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.		
Login Security	Support IEEE802.1X 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 100K~250Mbps 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 100k to 250Mbps		
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 and alarm 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, Ring topology change		
DHCP DNS	Provide DHCP Client/ DHCP Server/ IP Relay functions Provide DNS client feature and support Primary and Secondary DNS server.		
SNTP	Support SNTP to synchronize system clock in Internet		
Firmware Update	Support TFTP firmware update, TFTP backup and restore.		
•	Support binary configuration file for system quick installation		

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* Future release

** Optional

Order Information

Part Number	Product Family	Description
26 870 302	DragonLine	8x10/100TX + 2x100FX
20 070 302	DiagonLine	Industrial Ethernet Switch (Managed / Ring / SC / MM / 2km)
26 870 352-30	DragonLine	8x10/100TX + 2x100FX
20 870 332-30		Industrial Ethernet Switch (Managed / Ring / SC / SM / 30km)
	DragonLine	8x10/100TX + 2x100FX
26 870 302E	2.090.120	Industrial Ethernet Switch (Managed / Ring / SC / MM / 2km)
		Wide Temperature Range (-40°C~75°C)
	DragonLine	8x10/100TX + 2x100FX
26 870 352E-30	D. agonemo	Industrial Ethernet Switch (Managed / Ring / SC / SM / 30km)
		Wide Temperature Range (-40°C~75°C)