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8x10/100TX + COMBO: 2x10/100/1000T + 2x1000SFP Industrial PoE Gigabit Ethernet Switch (Managed / Ring)



<u>Benefits</u>	
 System Interface/Performance RJ-45 port support Auto MDI/MDI-X Function Embedded 8-port PoE inject function Store-and-Forward Switching Architecture Back-plane (Switching Fabric): 5.6Gbps 1Mbits Packet Buffer 8K MAC Address Table 	 Case/Installation IP-30 Protection DIN Rail and Wall Mount Design
 Power Supply Redundant Power Design 	 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**
 Port Trunk with LACP 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 	 Support 802.1ab LLDP** Bandwidth Control Ingress Packet Filter and Egress Rate Limit Broadcast/Multicast Packet Filter Control
 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
 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 Port Mirror: Monitor traffic in switched networks. TX Packet only RX Packet only 	 Bandwidth Control Ingress Packet Filter and Egress Rate Limit Broadcast/Multicast Packet Filter Control System Event Log System Log Server/Client SMTP e-mail Alert



Standard Compliance

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.3ad Port trunk with LACP IEEE802.3af Power over Ethernet IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree 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**
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Hardware Specification

Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps Packet throughput ability(Full-Duplex): 8.3Mpps @64bytes					
Transfer Rate	14,880pps for Ethernet port					
	148,800pps for Fast Ethernet port					
	1,488,000pps for Gigabit Fiber Ethernet port					
Packet Buffer	1Mbits					
Mac Address	1 Mblts 8K MAC address table					
Flash ROM						
DRAM	4Mbytes					
	32Mbytes 10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function					
Connector	Gigabit fiber: 2 x Mini-GBIC socket.					
	RS-232 connector: RJ-45 type					
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E cable					
Network Cable	EIA/TIA-568 100-ohm (100m)					
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable					
	EIA/TIA-568 100-ohm (100m)					
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable					
	EIA/TIA-568 100-ohm (100m)					
Optical Cable	Multimode: 50/125µm~62.5/125µm					
Optical Cable						
	Singlemode: 9/125µm~10/125µm Available distance: 2km (Multimode) / 30KM (Singlemode)					
	Wavelength: 1310nm (Multimode/ Single mode)					
PoE pin assignment	RJ-45 port # 1~# 8 support IEEE 802.3af End-point, Alternative B mode. Per port provides					
	15.4W ability.					
	Positive (VCC+): RJ-45 pin 4,5.					
	Negative (VCC-): RJ-45 pin 7,8.					
Protocol	CSMA/CD					
. = 5	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green)					
LED	8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow)					
	Giga port: Link/Activity					
Power Supply	External Power Supply: DC 48V					
	Redundant power DC 48V					
	Connective removable terminal block for master and slave power					
Power Consumption	Watt					
Operating Humidity	5% to 95% (Non-condensing)					
Operating Temperature						
	Wide Operating Temperature -40°C~75°C					
Storage Temperature	-40°C to 70°C					
Case Dimension	IP-30, 72mm (W) x 105mm (D) x 152mm (H)					
Installation	Provide DIN rail kit and wall mount ear for wall mount or DIN-type cabinet install					
EMI	FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN-61000-4-4, CE EN61000-4-5,					
	CE EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11					
Safety	UL, cUL, CE/EN60950-1					
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)					



Software Feature

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven**				
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	Provide DHCP Client/ DHCP Server/ IP Relay functions				
DNS	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.				
Configuration upload and	Support text format configuration file for system quick installation				
download					

* Future Release

** Optional

Order Information

Part Number	Product Family	Description
26 P1870 300	l)radonl ine	8x10/100TX + 2x10/100/1000FX
		Industrial PoE Gigabit Ethernet Switch (Managed/Ring/SFP)