

IES-2208F-67

8 10/100TX + 2 100FX M12 / IP-67 Managed Industrial Switch

- Pro-Ring covers X-ring, Dual Homing, and Couple Ring Topology
- Provides M12 connector with IP-66/67 rated protection
- Wide Operating Temperature from -40 °C to 75 °C
- Support with L-Key(M12) for easy maintenance













OVERVIEW

Lantech IES-2208F-67 is an 8 10/100 Base-TX + 2 100FX with M12-connctor Managed Industrial Switch for IP66/67 rated protection. The full SNMP management features are including QoS for 4 queues, 801.q VLAN, IGMP snooping and query mode as well as SNTP and SMTP. The PTP(Precision Time Protocol) client will be future supported.

Equipped with DC 9V-56V power input design, Lantech IES-2208F-67 can support redundant power supply input to ensure power runtime. It also supports relay contact to connect with alarm system, which can immediately notify of power failure and/or port down events. In case of events, Lantech IES-2208F-67 will immediately send an email to pre-defined addresses and send trap to stations.

Lantech IES-2208F-67 supports our Pro-Ring system including X-Ring, which is able to find an auto-recovery-path within 10ms up to 250 Lantech Industrial Switches and Dual-Homing feature ensures two X-Ring groups with redundant back up when

connected to a backbone switch. Pro-Ring also provides Couple Ring to provide network recovery protection between two X-Ring groups. Furthermore, it can set back-up masters in X-Ring to ensure the most secure network.

IES-2208F-67 is designed to meet with critical network environment with IP67 enclosure and M12 connectors for protection against water and dust ingress. It has passed harsh environmental testing to comply with Industrial EMI and Safety standards. Besides 1.2KVA Hi-Pot abnormal test, it also passed stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the IES-2208F-67 supports an extended operating temperature range from -40°C to 75°C.

Lantech L-Key (M12) can be used to quickly configure the IES-2208F-67 on site without the need for an IP connection or notebook PC. Lantech IES-2208F-67 is an ideal choice for critical industrial environments such as smelters, crusher plants, open cut mines etc.

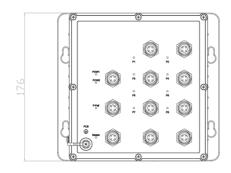
FEATURES & BENEFITS

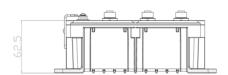
- 8-port 10/100TX + 2-port 100FX Managed Industrial Switch with M12 connectors and IP66/67 rated protection
- Back-plane (Switching Fabric): 5.6Gbps
- 1Mbits Packet Buffer
- IGMP with Snooping and Query mode for Multi Media Application
- 8K MAC address table
- Redundant Power Design with wide DC9V-56V input
- IEEE 802.1d Spanning Tree & IEEE 802.1w RSTP
- Port Based VLAN, 802.1Q Tag VLAN, GVRP
- Pro-Ring
 - · X-ring, Dual Homing, and Couple Ring Topology.
 - Provide redundant backup feature and the recovery time below 10ms
- Port Trunk with LACP
- Supports IEEE 802.1ab LLDP
- IEEE 802.1p Class of Service, per port 4 priority queues

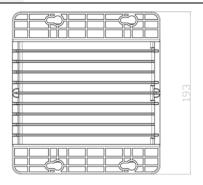
- Port base, Tag Base and Type of Service Priority
- Supports Ingress Packet Filter and Egress Rate Limit
- Supports Broadcast/Multicast Packet Filter Control
- Port Mirror: Monitor traffic in switched networks
- System Log Server/Client
- Security
 - · Port Security: MAC address entries/Filter
 - IP Security: IP address security management to prevent unauthorized intruder
 - · Login Security: IEEE802.1X/RADIUS
- SNMP Trap
 - Device cold start, Power status, Authentication failure,
 X-ring topology changed, Port Link up/Link down, port events
- Relay Alarm Output System Events
- IGMP with Query mode for Multi Media Application
- TFTP Firmware Update and System Configure Restore/Backup

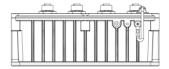


DIMENSIONS (unit=mm)









SPECIFICATIONS

Hardware Specification		Operating Humidity	5% ~ 95% (Non-condensing)
IEEE Standard	IEEE802.3 10Base-T Ethernet	Case Dimension	IP-67, 193mm (W) x 176mm (H) x 62.5mm (D)
ieee Standard	IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Weight	TBD
		Installation	Wall mount design
	IEEE802.3ad Port trunk with LACP	EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD),
	IEEE802.3af Power over Ethernet		CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT),
	IEEE802.1d Spanning Tree		CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS),
	IEEE802.1w Rapid Spanning Tree		CE EN61000-4-8, CE EN61000-6-2,
	IEEE802.1p Class of Service		CE EN61000-6-4
	IEEE802.1Q VLAN Tag	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),
	IEEE802.1x User Authentication (Radius)		IEC60068-2-6 (Vibration)
	IEEE802.1ab LLDP	MTBF	TBD
0 11 4 11 1	IEEE1588 PTP client*	Warranty	5 years
Switch Architecture Transfer Rate	Back-plane (Switching Fabric): 5.6Gbps	Software Specification	
Transier Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
Packet Buffer	1Mbits	SNMP MIB	RFC 1215 Traps MIB, RFC 1213 MIBII,
MAC Address	8K MAC address table		RFC 1157 SNMP MIB, RFC 1493 Bridge MIB,
Connector	10/100TX: 8 x M12 4-pole D-coded with auto		RFC 2674 VLAN MIB, RFC 1643 EtherLike,
	MDI/MDI-X function		RFC 1757 Rmon, RSTP MIB, Private MIB, PoE
	2 100FX/LC (LX/SX) connectors		MIB,LLDP MIB
	RS-232 connector: 1 x M12 8-pole A-coded	VLAN	Port Based VLAN
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable		IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to
	EIA/TIA-568 100-ohm (100m)		4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups)
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable	Port Trunk with	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk
	EIA/TIA-568 100-ohm (100m)	LACP	members
Optical Cable	Multi-mode: 50/125um~62.5/125um	LLDP	Supports IEEE802.1ab LLDP, the advertising of the
	Single mode: 9/125um Available distance: 0.5km (Multi-mode)/10km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)		switch's Identity and capabilities
		Spanning Tree	Supports IEEE802.1d Spanning Tree and
			IEEE802.1w Rapid Spanning Tree
Protocol	CSMA/CD	Pro-ring	Supports X-ring, Dual Homing, and Couple Ring.
LED			Provides redundant backup feature and the recovery
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), R-Master (Green) Ethernet: Link/Activity (Green, Fiber: Link/Activity (Green)		time below 10ms
		Quality of Service	The quality of service determined by port, Tag and
			IPv4 Type of service, IPv4/IPv6 Different Service
Power Supply	DC 9-56V, Redundant power with M12 5-pole A-coded	Class of Service	Supports IEEE802.1p class of service, per port
- T OHCI Ouppiy	connector		provides 4 priority queues
Reserve polarity	Present	Port Security	Supports 100 entries of MAC address for static MAC
protection		D (11)	and another 100 for MAC filter
Overload current	Present	Port Mirror	Supports 3 mirroring types: "RX, TX and Both packet"
protection		IGMP	Supports IGMP snooping v1,v2 256 multicast groups and IGMP query
Power	14W	ID Socurity	
Consumption		IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent
Operating	-40°C~75°C / -40°F~167°F		unauthorized intruder.
Temperature		Login Security	Supports IEEE802.1X Authentication/RADIUS
Storage	-40°C~85°C / -40°F~185°F	Flow Control	Supports Flow Control for Full-duplex and Back
Temperature		TIOW COILLOI	Supports Flow Contitor for Full-duplex and Back



	Pressure for Half-duplex	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
System Log	Supports System log record and remote system log server		
SMTP	Supports SMTP Server and 6 e-mail accounts for receiving event alert		
		DHCP	Provides DHCP Client/ DHCP Server/ IP Relay
SNTP	Supports SNTP to synchronize system clock in		functions
	Internet	DNS	Provides DNS client feature and support Primary and
Bandwidth Control	Support ingress packet filter and egress packet limit		Secondary DNS server
	The egress rate control supports all of packet type and	Firmware Update	Supports TFTP firmware update, TFTP backup and
	the limit rates are 100K~102400Kbps(10/100),		restore.
	Ingress filter packet type combination rules are	Configuration	Supports binary format configuration file for system
	Broadcast/Multicast/Unknown Unicast packet,	upload and	quick installation
	Broadcast/Multicast packet, Broadcast packet only	download	
	and all of packet. The packet filter rate can be set from		*Future Release
	100K~102400Kbps(10/100),		**Optional
Relay Alarm	Provides one relay output for port breakdown, power		
	fail and alarm		
	Alarm Relay current carry ability: 1A @ DC24V		

ORDERING INFOMATION

■ IES-2208F-67-SX.....P/N: NA

8 10/100TX + 2 100SX (LC, MM 550m) IP67 rated Managed Industrial Switch w/M12 connectors

■ IES-2208F-67-LX.....P/N: NA

8 10/100TX + 2 100LX (LC, SM 10km) IP67 rated Managed Industrial Switch w/M12 connectors

OPTIONAL ACCESSORIES

DIN Rail Power

AD1048-24FS
 AD1024-24F
 AD1024-24F
 AD1240-48S
 AD1240-48F
 AD1120-48F
 AD1120-48F
 AUDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
 AUDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
 AUDC, 25A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

Accessory

L-Key (M12 Type)......P/N: NA

Configuration backup and restoration tool for managed switches w/ M12 connector

Lantech Communications Global Inc.

www.lantechcom.tw info@lantechcom.tw

© 2009 Copyright Lantech Communications Global Inc. all rights reserved. The revise authority rights of product specifications belong to Lantech Communications Global Inc. Lantech may make changes to specification and product descriptions at anytime, without notice.