

IPES-2208CB

8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/ 8-PoE at/af Managed Industrial Switch

- Pro-Ring IIse for self-recovery ring in 20ms
- Support PoE Plus 802.3at/af ;240W PoE budget; 12V~48V input (12V model)
- PoE management incl. Detection, Delay and Scheduling
- Support Advanced SNMP including QoS, IGMP query & source only / v3, DDM***, Environmental Monitoring**



OVERVIEW

The Lantech IPES-2208CB is an 8-port 10/100BaseTX + 2-port 10/100/1000T/Dual Speed SFP Combo industrial PoE switch w/8 POE 802.3at/af Injectors and Pro-Ring IIse self-recovery in less than 20ms. The SFP connection is suitable with 100M or 1000M Dual Speed. The advanced SNMP management features include QoS for 4 queues, 802.1q VLAN, IGMP snooping, query and source only for multicast IP surveillance, DDM*** as well as Web Ping, Environmental Monitoring**, SNTP and SMTP etc.

Compliant with 802.2at/af PoE Plus standard, the Lantech IPES-2208CB is able to feed each PoE port up to 30 Watts@54 VDC providing the connected PD devices. The built-in relay contact is able to connect with alarm system and send Email, SNMP trap and Syslog alert in case of power or connection failure. IPES-2208CB-12V is built with Booster technology that can accept input voltage from 12V ~ 48V and deliver PoE power at 48V to feed the PD.

Lantech IPES-2208CB supports advanced PoE management including PoE detection, delay and scheduling. PoE detection can detect if the connected PD is hanging up then restart the PD; PoE delay is to delay power feeding when the switch is completely booted up; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. The exclusive IGMP source only function can auto choose IGMP query for surveillance application. The innovative Pro-Ring IIse self-recovery scheme can recover Ring network in less than 20ms for single ring with only one step configuration. Lantech IPES-2208CB builds all the important management features required in large network like DHCP Client/Server, 802.1X authentication, IGMP Query / Snooping / v3 and Source only for reverse multicast flow ,and advanced QoS. It also supports Ping commands via Web to detect whether a specific device is connected for easy trouble-shooting.

The built-in factory reset button can restore all setting back to factory default in case of User name and Password are missing. The optional environmental monitoring model can display ambient temperature inside case, Input voltage, current, power consumption, PoE load info at a glance and with capability of alert setting.

The Lantech IPES-2208CB can support up to 6KV ESD contact per UTP port to minimize the burn down risk where the electronic static discharge is usually found. It is the best to be used in municipal, city surveillance, automation, transportation, mining, heavy Industrial factory where needs PoE functionality under harsh environment. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- Pro-Ring Ilse for self-recovery scheme in less than 20ms in Ring for single ring and coupling ring.
- Embedded 8-port PoE plus to feed power up to

30W@54V.

 PoE management including PoE detection, delay and scheduling for PD(power devices)

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- PoE voltage boost from 12V to 48V (12V model)
- SFP slot supports 100/1000 Dual Mode with DDM*** for SFP diagnostic and monitoring
- Back-plane (Switching Fabric): 5.6Gbps
- 1Mbits Packet Buffer / 8K MAC address table
- IP-30 Protection with DIN rail and wall mount design
- Dual Power Design for +DV power input
- Provides EFT protection ±2000 VDC for power line
- Supports ±6000 VDC ESD protection
- Support CPU load monitoring every 1,5,15 minutes and Web Ping to check if the connected device is alive
- IEEE 802.1d STP, IEEE 802.1w RSTP
- IGMP with Snooping / v1,v2,v3, Query mode for Multi Media Application
- IGMP source only for auto query chosen in surveillance application
- Manual static multicast route for non-IGMP application
- Port Based VLAN, 802.1Q Tag VLAN, GVRP
- Port Trunk with LACP
- Supports IEEE 802.1ab LLDP
- Supports IEEE 802.1p CoS, 4 priority queues per port
- Port base, Tag Base and Type of Service Priority

IEEE802.3ab 1000Base-T

IEEE802.3z Gigabit fiber

IEEE802.1d Spanning Tree

IEEE802.3x Flow Control and Back Pressure

IEEE802.3ad Port trunk with LACP

IEEE802.1w Rapid Spanning Tree

IEEE802.1s Multiple Spanning Tree

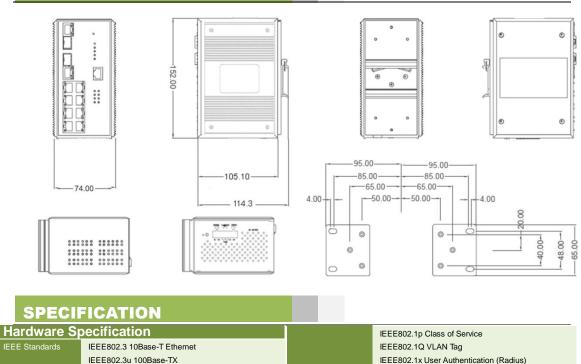
IEEE802.3af /at Power over Ethernet

Supports Ingress Packet Filter and Egress Rate Limit

- Supports Broadcast/Multicast Packet Filter Control
- Port Mirror: Monitor traffic in switched networks
 TX, RX, Both of TX and RX Packet
- System Log Server/Client
- SMTP e-mail Alert up to 6 emails
- Security
 - · Port Security: MAC address entries/Filter
 - IP Source Guard: IP address security management to prevent unauthorized intruder
 - · Login Security: IEEE802.1X/RADIUS/SSH**/SSL**
- SNMP Trap

- Device cold start, Power status, Authentication failure, Port Link up/Link down
- PoE event
- Environmental Monitoring**
- Relay Alarm Output System Events
- TFTP Firmware Update
- Factory reset bottom can restore all setting back to factory default
- Optional environmental graphical monitoring for ambient temperature inside case, system input voltage, current, power consumption and PoE load as well as event alerting

DIMENSIONS (unit=mm)



Switch Architecture

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Back-plane (Switching Fabric): 5.6Gbps

1,488,000pps for Gigabit Fiber Ethernet port

IEEE802.1ab LLDP

1Mbits

4Mbytes

14,880pps for Ethernet port

8K MAC address table

148,800pps for Fast Ethernet port



Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X		CE EN61000-4-3, CE EN61000-4-4,
	function		CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11,
	10/100/1000T/SFP Combo port: 2 x RJ-45 + 2 x 100/1000 SFP socket with DDM***		CE EN61000-4-12, CE EN61000-6-2,
	RS-232 connector: RJ-45 type		CE EN61000-6-4
Naturali Cabla		Safety	UL 60950
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		
	EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
	EIA/TIA-568 100-ohm (100m)	Power	9.86 W (no PoE load) for Ethernet data at full load
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	Consumption	
	EIA/TIA-568 100-ohm (100m)	PoE Power Budget	240W @48VDC; 120W @24VDC; 90W @12VDC
Optical Fiber	1.25Gbps:		
optical riber	Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2	Warranty Software Sp	5 years
	km, 1310 nm (50/125 μm)	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
	Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm	SNMP MIB	
	(9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550	SINIVIE WILD	RFC 1215 Traps MIB, RFC 1213 MIBIIS, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB,
	nm (9/125 µm)		RFC 2674 VLAN MIB, RFC 1643 EtherLike,
	125Mbps:		RFC 1757 Rmon, RSTP MIB,
	Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 µm)		Private MIB, PoE MIB, LLDP MIB
	Single mode: 0 to 30 km, 1310 nm (62.5/125 µm)	System Information	Show detail info incl.Name, Version,CPU load
	WDM 1.25Gbps:		monitoring for every 1,5,15 minutes
	Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310		Display network parameters incl. Mac, IP, Gateway,
	nm (9/125 µm); 0 to 80 km, 1490 nm (9/125 µm); 0 to		Netmask
	10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125		Allow adding port description
	μm)	Pro-Ring Ilse	Pro-Ring Ilse system covers Single-Ring and Couple
	WDM 125Mbps:		Ring for network recovery in less than 20ms up to 5
	Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310		switches in a ring.
	nm (9/125 µm); 0 to 20 km/ 40 km/ 60 km/ 80 km,		20ms recovery is on fiber port.
	1550 nm (9/125 μm)	VLAN	Port Based VLAN
Protocol	CSMA/CD		IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up
PoE pin assignment	RJ-45 port # 1~# 8 support 802.3at/af End-point,		to 4K, VLAN ID can be assigned from 1 to 4096.)
	Alternative A mode. Per port provides up to		GVRP (256 Groups)
	30W @54V capability.	Ping detection	Support Ping command through Web to detect the
	Positive (VCC+): RJ-45 pin 1,2.		connected devices
	Negative (VCC-): RJ-45 pin 3,6.	Port Trunk with	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk
PoE input voltage &	Input V Active Mode A	LACP	members
Power feed voltage	/Output V	LLDP	Supports LLDP to allow switch to advise its
	12V~56V 48V/54V@15W/		identification and capability on the LAN
	30W (IPES-2208	Spanning Tree	Supports IEEE802.1d Spanning Tree, IEEE802.1w
	CB-12V)	0.54	Rapid Spanning Tree, IEEE 802.1s MSTP
	45~56V(af) 48V@15W	PoE Management	PoE Detection to check if PD is hang up
	53~56V(at) 54V@30W		then restart the PD
LED	Per unit: Power (Green), Power 1 (Green), Power 2		PoE Delay to send power when switch is
	(Green), Fault (Yellow), Master (Green)		completely boot up PoE Scheduling to On/OFF PD upon routin
	8 port 10/100: Link/Activity (Green), Full		PoE Scheduling to On/OFF PD upon routin time table
	duplex/Collision (Yellow)	En iron montol	
	SFP port: LNK/ACT(Green), 1000T:	Environmental	Graphical display of Ambient temperature inside
		Monitoring **	case, Input voltage, Input current, Power
D O I	LNK/ACT(Green), 1000M(Green)		concumption. BoE load with conchility of clort actting
Power Supply	PoE input 48V/54VDC;	Quality of Saniaa	consumption, PoE load with capability of alert setting
Power Supply	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power	Quality of Service	The quality of service determined by port, Tag and
Power Supply	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and		The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service
	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power	Quality of Service Class of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port
Overload current	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and	Class of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues
Overload current protection	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present		The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC
Overload current protection Operating Humidity	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing)	Class of Service Port Security	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter
Overload current protection Operating Humidity Operating	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C~60°C / -4°F~140°F	Class of Service Port Security Port Mirror	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packet
Overload current protection Operating Humidity	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F~140°F Wide Operating Temperature for E models:	Class of Service Port Security	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packet Supports IGMP snooping v1,v2,v3
Overload current protection Operating Humidity Operating Temperature	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F~140°F Wide Operating Temperature for E models: -40°C~75°C / -40°F~167°F	Class of Service Port Security Port Mirror	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packet Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen
Overload current protection Operating Humidity Operating Temperature Storage	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F~140°F Wide Operating Temperature for E models:	Class of Service Port Security Port Mirror	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packer Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast
Overload current protection Operating Humidity Operating Temperature Storage Temperature	PoE input 48V/54VDC; 12V-54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F-140°F Wide Operating Temperature for E models: -40°C-75°C / -40°F-167°F -40°C-85°C / -40°F-185°F	Class of Service Port Security Port Mirror IGMP	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packer Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast 256 multicast groups and IGMP query
Overload current protection Operating Humidity Operating Temperature Storage Temperature Case Dimension	PoE input 48V/54VDC; 12V-54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F-140°F Wide Operating Temperature for E models: -40°C-75°C / -40°F-167°F -40°C-85°C / -40°F-185°F JIP-30, 74(W) x 114.3 (D) x 152 (H) mm	Class of Service Port Security Port Mirror	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packer Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast 256 multicast groups and IGMP query Supports 10 IP addresses that have permission to
Overload current protection Operating Humidity Operating Temperature Storage Temperature Case Dimension Weight	PoE input 48V/54VDC; 12V-54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F-140°F Wide Operating Temperature for E models: -40°C-75°C / -40°F-167°F -40°C-85°C / -40°F-185°F IP-30, 74(W) x 114.3 (D) x 152 (H) mm 850 g	Class of Service Port Security Port Mirror IGMP	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packer Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast 256 multicast groups and IGMP query Supports 10 IP addresses that have permission to access the switch management and to prevent
Overload current protection Operating Humidity Operating Temperature Storage Temperature Case Dimension Weight Fan Number	PoE input 48V/54VDC; 12V~54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F~140°F Wide Operating Temperature for E models: -40°C~75°C / -40°F~167°F -40°C~85°C / -40°F~185°F IP-30, 74(W) x 114.3 (D) x 152 (H) mm 850 g 0	Class of Service Port Security Port Mirror IGMP	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packe Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast 256 multicast groups and IGMP query Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Overload current protection Operating Humidity Operating Temperature Storage Temperature Case Dimension Weight	PoE input 48V/54VDC; 12V-54V(IPES-2208CB-12V); Dual power connective removable terminal block for master and slave power Present 5% ~ 95% (Non-condensing) Standard: -20°C-60°C / -4°F-140°F Wide Operating Temperature for E models: -40°C-75°C / -40°F-167°F -40°C-85°C / -40°F-185°F IP-30, 74(W) x 114.3 (D) x 152 (H) mm 850 g	Class of Service Port Security Port Mirror IGMP	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service Supports IEEE802.1p class of service, per port provides 4 priority queues Supports 100 entries of MAC address for static MAC and another 100 for MAC filter Supports 3 mirroring types: "RX, TX and Both packe Supports IGMP snooping v1,v2,v3 IGMP Source only for query auto chosen Static Multicast Route for non-IGMP multicast 256 multicast groups and IGMP query Supports 10 IP addresses that have permission to access the switch management and to prevent

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Industrial Managed Switches / Industrial PoE Series



	Pressure for Half-duplex		3. Link up
System Log	Supports System log record and remote system log		4. Authorization fail
	server		5. PoE port event
SMTP	Supports SMTP Server and 6 e-mail accounts for		Environmental abnormal event**
	receiving event alert	DHCP	Provides DHCP Client/ DHCP Server/ Port and IP
SNTP	Supports SNTP to synchronize system clock to		Binding
	Internet	DNS	Provide DNS client feature and support Primary and
Bandwidth Control	Support ingress packet filter and egress packet limit		Secondary DNS server.
& Storm Control	The egress rate control supports all of packet type	Firmware Update	Supports TFTP and Web firmware update, TFTP
	and the limit rates are 100K~102400Kbps(10/100),		backup and restore.
	100K~256000Kbps(1000)	Factory reset	Factory reset bottom can restore all setting back to
	Ingress filter packet type combination rules are		factory default
	Broadcast/Multicast/Unknown Unicast packet,	ifAlias	Each port allows importing 128bits of alphabetic
	Broadcast/Multicast packet, Broadcast packet only		string of word on SNMP and CLI interface
	and all of packet. The packet filter rate can be set		*Future Release
	from 100K~102400Kbps(10/100),		**Optional
	100K~256000Kbps(1000)		***Optional DDM SFP required
Relay Alarm	Provides one relay output for port breakdown, power		
	fail alarm.		
	Alarm Relay current carry ability: 1A @ DC24V		
SNMP Trap	1. Cold start		
	2. Link down		

ORDERING INFOMATION

- IPES-2208CB.....P/N: 8350-784
- 8 10/100TX + 2 10/100/T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af Industrial Managed Switch; -20°C to 60°C IPES-2208CB-E.....P/N: 8350-785
- 8 10/100TX + 2 10/100/T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af Industrial Managed Switch; -40°C to 75°C IPES-2208CB-12V.....P/N: 8350-786

8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af Industrial Switch w/12V~56V PoE input; -20°C to 60°C

- IPES-2208CB-12V-E.....P/N: 8350-787 8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af w/12V~56V PoE input Industrial Switch; -40°C to 75°C IPES-2208CB-M.....P/N: 8350-7841
- 8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af & Environmental monitoring Industrial Switch: -20°C to 60°C
- IPES-2208CB-M-E.....P/N: 8350-7851 8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af & Environmental monitoring Industrial Managed Switch; -40°C to 75°C
- IPES-2208CB-12V-M P/N: 8350-7861 8 10/100TX + 2 10/100/T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af & Environmental monitoring Industrial Managed Switch w/12V~56V PoE input ; -20°C to 60°C
- IPES-2208CB-12V-M-E.....P/N: 8350-7871 8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo w/8 PoE Injectors 802.3at/af & Environmental monitoring industrial Managed Switch w/12V~56V PoE input; -40°C to 75°C

OPTIONAL ACCESSORIES

55VDC DIN Rail Power for 802.3at Applications

AD1240-48S-5	48~56VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
AD1360-48S-5	(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) 48~56VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp.
AD1500-48S-5	 -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) 48~56VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
DIN Rail Power	
AD1240-48S	48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

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48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Mini GBIC (SFP)

8330-162	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-188
8330-163	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-189
8330-165	MINI GBIC 1000LX (LC/10km) Transceiver	8330-186
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-187
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver	8330-180
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver	8330-182
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-18
8330-170	MINI GBIC 1000EZX (120km) Transceiver	8330-183
8330-168	MINI GBIC 1000T (100m) Transceiver	8330-184
8330-061	100Base LX 30KM, Single-mode, LC Transceiver	8330-18
8330-060	100Base FX 2KM, Multi-mode, LC Transceiver	All the abov

8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)
All the above pa	rt-no ended with D are with Diagnostic function

Lantech Communications Global, Inc.

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