

IES-3307C 7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed SFP Combo Industrial Managed Switch ITU G.8032 standard ring protection < 20ms incl. data & multicast* packets: co-exist with RSTP Miss-wiring avoidance & Repowered auto ring restore (node failure protection) User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI Support LACP link aggregation, IGMP v3/router port, DHCP server, Port&VLAN based DHCP distribution, DHCP Option 82, SSH/SSL, TACAS+*, ACL, IPv6, SMS Environmental Monitoring for temp., voltage & current** USB slot for edited restoration and auto backup FCC (E 🕱 RoHS

OVERVIEW

Lantech IES-3307C is a high performance L2+ (Gigabit uplink) switch with 7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed SFP Combo which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 ring recovery less than 20ms, comprehensive QoS, advanced security including ACL L2/L3, SSH/SSL, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ* (double tag VLAN) , and MVR (multicast VLAN registration), which are important features required in large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

The IES-3307C also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IES-3307C is able to alert with the LED indicator and send out an email, traps or a SMS text. Repowered auto ring restore function (node failure protection) ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

DHCP option 82 and relay agent function (port&vlan based DHCP distribution) can offer the same IP address on port base or vlan base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The user friendly UI, innovative auto topology drawing and topology demo makes IES-3307C much easier to get hands-on. The switch also equips the RTC (real time clock) which can keep track of time always. The IES-3307C supports DMI interface that can correspond with DDM SFPs (Digital diagnostic monitor) to display the five parameters in Lantech's UI, including optical output power, input power, temperature, laser bias current and transceiver supply voltage***. The TX power/RX power raw data is automatically converted to dB values for installer, making it easier to calculate the fiber distance. The complete CLI enables professional engineer to configure setting by command line.

Lantech IES-3307C features ITU G.8032 ring which can be self-healed in less than 20ms for ring/chain topologies which covers data & multicast* packets protection. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in single ring which makes ITU G.8032 ring setup never been easier. It supports MSTP that allows RSTP over Vlan for redundant links. The ITU G.8032 Ring and RSTP can be co-existed in the same switch with different ports for the most flexible protection.

The configuration file of Lantech IES-3307C can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The factory reset button can restore the setting back to factory default and built-in watchdog design can automatically rebot the switch when CPU is found dead. The USB slot allows user to backup/ restore configuration.

Industrial Managed Switches

The IES-3307C DIDO function can support additional open/close physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the switch was moved or stolen. In case of events, the IES-3307C will immediately send an email & SMS text message to pre-defined addresses as well as SNMP Traps out. It provides 2DI and 2DO while disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the alarm while sending alert information to IP network with email and traps.

The optional environmental monitoring can detect switch overall temperature, voltage and current where can send the SNMP traps, email and SMS alert when abnormal.

The Lantech IES-3307C is designed with redundant power supply at 12/24/48VDC. Featured with relay contact alarm function, the IES-3307C is able to connect with alarm system in case of power failure. The IES-3307C also provides 3000V EFT and 6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Lantech IES-3307C features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- 7 10/100TX + 2 10/100/1000T/Dual Speed SFP
 Combo + 1 10/100TX/Dual Speed SFP Combo (Total 10 Ports Switch)
- Back-plane (Switching Fabric): 7.4Gbps
- 8K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance
- 10KB Jumbo frame supported on 10/100MTX*
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- ITU G.8032 Ring protection in 20ms < 256 switches</p>
 - Support various ring/chain topologies, including double ring
 - Ring protection coverage data and multicast* packets
 - Auto ring configuration(auto mode) for single ring
 - Co-exist with RSTP on different ports
- Provides EFT protection 3000 VDC for power line.
- Supports 6000 VDC Ethernet ESD protection
- LACP load balancing to distribute the load*
- Built-in RTC (Real Time Clock) to keep track of time
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy
- 4K 802.1Q VLAN, Port based VLAN, GVRP*, QinQ*, GMRP*
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech[™] InstaConfig**/ Lantech[™] InstaView**
- DHCP server / client / Port&Vlan based DHCP distribution / DHCP Option 82 supported
- Bandwidth Control
 - Ingress packet filter and egress rate limit Broadcast/multicast packet filter control
- Relay alarm output system events

- Email, traps, or SMS notification
 Repowered auto ring restore
 Ensure the switches in a ring to survive after power breakout is back
 The status can be shown in NMS when each switch is back
 TFTP/HTTPs firmware upgrade; Lantech[™]
 InstaConfig** for multiple upgrade; USB for edited restoration and auto backup
 System Event Log, SMTP Email alert, SMS mobile
- (text) and SNMP Trap for alarm support; 32 RMON counters
- Security

SSL/SSH/ACL L2&L3

Miss-wiring avoidance

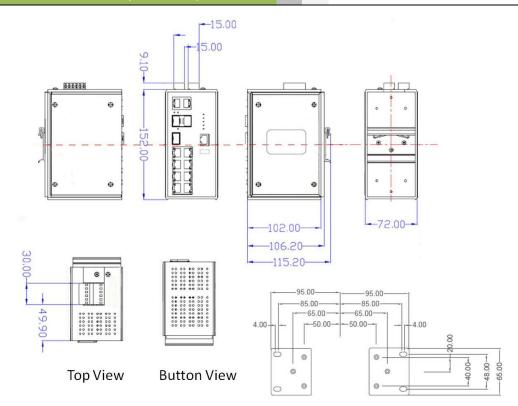
LED indicator

- Port Security: MAC address entries/Filter/MAC-Port binding
- IP Security: IP address security management to prevent unauthorized intruder.
- Management access control with priority
- Login Security: IEEE802.1X/RADIUS
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring and for reversed multicast video flow
- Multicast VLAN registration for metro video
- IGMPv1,v2,v3 with Query mode for multi media
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch CPU is found dead
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Supports DIDO (Digital Input/Digital Output)
- IP30 metal housing with DIN rail and Wall-mount** design

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DIMENSIONS (unit=mm)



SPECIFICATION			
Hardware Specification Power & P-Fail connector: 1 x 6-pole to	erminal block		
Standards IEEE802.3 10Base-T Ethernet DIDO : 1 x 6-pole terminal block			
IEEE802.3u 100Base-TX Network Cable 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5	/ 5E/ 6 cable		
IEEE802.3ab 1000Base-TX Ethernet EIA/TIA-568 100-ohm (100m)			
IEEE802.3z Gigabit fiber 100Base-TX: 2-pair UTP/STP Cat. 5/ 5	E/ 6 cable		
IEEE802.3x Flow Control and Back Pressure EIA/TIA-568 100-ohm (100m)			
IEEE802.3ad Port trunk with LACP 1000Base-TX: 2-pair UTP/STP Cat. 5/	5E/ 6 cable		
IEEE802.1d Spanning Tree EIA/TIA-568 100-ohm (100m)			
IEEE802.1w Rapid Spanning Tree Optical Cable 1.25Gbps:			
IEEE802.1s Multiple Spanning Tree Multi mode: 0 to 550 m, 850 nm (50/12	5 μm); 0 to 2		
IEEE802.3ad Link Aggregation Control Protocol km, 1310 nm (50/125 µm)			
(LACP) Single mode: 0 to 10 km/ 30 km/ 40 km	n, 1310 nm		
IEEE802.1AB Link Layer Discovery Protocol (LLDP) (9/125 µm); 0 to 50 km/ 60 km/ 80 km/	120 km, 1550		
IEEE802.1X User Authentication (Radius) nm (9/125 µm)			
IEEE802.1p Class of Service 125Mbps:			
IEEE802.1Q VLAN Tag Multi mode: 0 to 2 km/ 5 km, 1310 nm	(62.5/125 µm)		
Switch Architecture Back-plane (Switching Fabric): 7.4Gbps Single mode: 0 to 30 km, 1310 nm (62	.5/125 μm)		
Transfer Rate 14,880pps for Ethernet port WDM 1.25Gbps:			
148,800pps for Fast Ethernet port Single mode: 0 to 10 km/ 20 km/ 40 km	n/ 60 km, 1310		
1,488,000pps for Gigabit Fiber Ethernet port nm (9/125 µm); 0 to 80 km, 1490 nm (9/125 µm); 0 to 80 km, 140 km	9/125 µm); 0 to		
CPU Marvell 800Mhz 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1	550 nm (9/125		
RAM 256M Byte µm) Flash 128M Byte µm)			
Mac Address 8K MAC address table			
Jumbo frame 10KB for 10/100TX ports*	n/ 80 km, 1310		
nm (9/125 μm); 0 to 20 km/ 40 km/ 60	km/ 80 km,		
Connectors 10/100TX: 7 x ports RJ-45 with Auto MDI/MDI-X 1550 nm (9/125 µm)			
Protocol CSMA/CD 10/100/1000T/SFP Combo port: 2 x RJ-45 + 2 x LTD Descrit Descrit (Open) Descrit (Open)			
LED Per unit: Power 1 (Green), Power 2 (G 100/1000 SFP socket with DDM	reen), P-Fail		
(Red)			
SEP socket with DDM	eed (Green);		
RS-232 connector: RJ-45 type			
USB for configuration restore/backup			

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Industrial Managed Switches



	Level 0: -30~2V / Level 1: 10~30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC,	Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
	200mA	Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
Operating Humidity Operating	5% ~ 95% (Non-condensing) -20°C~60°C / -4°F~140°F (Standard model)	IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent
Temperature	-40°C~75°C / -40°F~167°F(-E model)		unauthorized intruder.
Storage	-40°C~85°C / -40°F~185°F	Login Security	Supports IEEE802.1X Authentication/RADIUS
Temperature		Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
Power Supply	12/24/48VDC (9.5 to 56 VDC)	Network Security	Support 10 IP addresses that have permission to
Power Consumption	10W		access the switch management and to prevent unauthorized intruder.
Case Dimension	Metal case. IP-30,		802.1X access control for port based and MAC based authentication/MAC-Port binding
	74 (W) x 114 (D) x 152 (H) mm		Management access control with priority
Weight	900 g		256 Policy based Access Control List
Installation	DIN Rail and Wall Mount** Design		SSL/ SSH for Management
EMI & EMS	FCC Class A, CE EN61000-6-2, CE EN61000-6-4, CE	IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 256 multicast groups; IGMP router port ; IGMP query
	EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4,	Multicast VLAN	MVR enables multicast packets go through VLAN for
	CE EN61000-4-5, CE EN61000-4-6, CE N61000-4-8, EN61000-4-11	Registration	VOD application
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)	Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type.
MTBF	NA		Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet,
Warranty	5 years		Broadcast/Multicast/Flooded Officast packet, Broadcast/Multicast packet, Broadcast packet only
Software Sp			and all types of packet.
Management	SNMP v1 v2c, v3/Web/Telnet/CLI		The packet filter rate can be set an accurate value
SNMP MIB	RFC 1215 Traps MIB,		through the pull-down menu for the ingress packet
	RFC 1213 MIBII	DTO	filter and the egress packet limit.
	RFC 1158 MIBII	RTC Flow Control	Built-in Real Time Clock to keep track of time always Supports Flow Control for Full-duplex and Back
	RFC 1157 SNMP MIB, RFC 1493 Bridge MIB,		Pressure for Half-duplex
	RFC 1493 Bildge MiB, RFC 1573 IF MIB	System Log	Supports System log record and remote system log
	RFC 2674 VLAN MIB,	, ,	server
	Partial RFC 1643 EtherLike,	SMTP/Text SMS	Supports SMTP Server and 6 e-mail accounts for
	Partial RFC 1757 RMON,		receiving event alert; can send SMS text alert via
	RFC 2674 Q-Bridge MIB		mobile
	RFC 2790 Host Resource MIB LLDP MIB*	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm.
	RSTP MIB*		Alarm Relay current carry ability: 1A @ DC24V
	Private MIB	Protection	Miss-wiring avoidance
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in		Repowered auto ring restore
	less than 20ms for self-heal recovery (basic mode)		Loop protection
	Support various ring/chain topologies	SNMP Trap	Up to 3 trap stations; trap types including:
	Ring covers data & multicast* packets Co-exist with RSTP on different ports		 Device cold start Authorization failure
User friendly UI	Auto topology drawing		Port link up/link down
	 Topology demo 		DI/DO open/close
	 Auto configuration for G.8032(auto mode) 		Environmental abnormal**
	for single ring	DHCP	Provide DHCP Client/ DHCP Server/DHCP Option
	 DDM threshold monitoring with dB values*** Complete CLI for professional setting 		82/Port based&VLAN based DHCP distribution (DHCP relay agent)
Port Trunk with	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk	DNS	Provide DNS client feature and support Primary and
Port Trunk with LACP	members		Secondary DNS server.
	• ·	DNS	
LACP	members Load balancing through LACP to distribute load*		Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and
LACP LLDP CDP	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping	SNTP	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™]
LACP LLDP CDP Environmental	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient	SNTP Firmware Update	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade
LACP LLDP CDP	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if	SNTP Firmware Update Configuration	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick
LACP LLDP CDP Environmental Monitoring**	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models)	SNTP Firmware Update Configuration upload and	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick installation; Support factory reset button to restore all
LACP LLDP CDP Environmental	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if	SNTP Firmware Update Configuration	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick
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LACP LLDP CDP Environmental Monitoring** VLAN	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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)*,GMRP*, QinQ	SNTP Firmware Update Configuration upload and download	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for edited restoration and auto backup Each port allows an alphabetic string of 128-byte assigned as its own unique name via the SNMP or
LACP LLDP CDP Environmental Monitoring** VLAN	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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)*,GMRP*, QinQ Present	SNTP Firmware Update Configuration upload and download	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for edited restoration and auto backup Each port allows an alphabetic string of 128-byte assigned as its own unique name via the SNMP or CLI interface
LACP LLDP CDP Environmental Monitoring** VLAN	members Load balancing through LACP to distribute load* Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M models) 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)*,GMRP*, QinQ	SNTP Firmware Update Configuration upload and download	Secondary DNS server. Supports SNTP to synchronize system clock in Internet Supports TFTP firmware update, TFTP backup and restore; HTTPs firmware upgrade; Lantech [™] InstaConfig** for multiple upgrade Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for edited restoration and auto backup Each port allows an alphabetic string of 128-byte assigned as its own unique name via the SNMP or

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ORDERING INFOMATION

IES-3307C.....P/N: 8350-470

7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed Combo Managed G.8032 Industrial Switch; -20°C to 60°C

IES-3307C-E.....P/N: 8350-471 7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed Combo Managed G.8032 Industrial Switch; -40°C to 75°C IES-3307C-M.....P/N: 8350-4701

7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed Combo Managed G.8032 Industrial Switch w/environmental monitoring; -20°C to 60°C

IES-3307C-M-E.....P/N: 8350-4711

7 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo + 1 10/100TX/Dual Speed Combo Managed G.8032 Industrial Switch w/environmental monitoring; -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- AD1048-24FS 24VDC, 2A, Wide AC Input, Convection 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 ~ 75°C, which means the output is 18 Watts at 75°C.) AD1024-24F 24VDC, 1A, Wide AC Input, Convection 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 ~ 75°C, which means the output is 9 Watts at 75°C.)
- AD1240-48S 48VDC, 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 8330-163 MINI GBIC 1000SX2 (LC/2km) Transceiver 8330-165 MINI GBIC 1000LX (LC/10km) Transceiver 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver 8330-170 MINI GBIC 1000EZX (120km) Transceiver 8330-168 MINI GBIC 1000T (100m) Transceiver 100Base LX 30KM, Single-mode, LC Transceiver 8330-061 8330-060 100Base FX 2KM, Multi-mode, LC Transceiver

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 SFP ended with D are with Diagnostic function				

Α

Lantech Communications Global Inc.

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AD1120-48F 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)