

IGS-6416XSFP

16 10/100/1000T + 4 1G/2.5G/10G SFP⁺ L2+ Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring; 12V/HV input models

- Auto-sensing triple speed1G/2.5G/10G SFP+ Uplink Cage
- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode*, enhanced mode, train mode*, multi-VLAN* and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8/16*MSTI /RSTP; support MRP ring**
- Support IEEE 1588 v2 one-step PTP w/transparent clock
- Miss-wiring avoidance & 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 & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN**, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+, QinQ**, SMS**
- Optional InstaView^{**} for centralized backup, editing the configuration file and upgrade firmware
- Environmental Monitoring for temp., voltage & current
- Wide range operation temperature (-E model):-40~75C/-40~167F; Fan-less design



OVERVIEW

Lantech IGS-6416XSFP is a high performance L2+ (All Gigabit) Ethernet switch with 16 100/1000T + 4 1G/2.5G/10G auto sensing SFP+ which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring. It also supports train ring*, enhanced mode with easy configuration, comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ** which are important features required in large network. The Cisco Discovery Protocol (CDP) and LLDP are supported for Ciscoworks to detect the switch info and show on L2 map topology. The enhanced platform allows quick booting up time under 50 seconds.

Miss-wiring avoidance, Loop protection, Repowered auto ring restore

The IGS-6416XSFP 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 IGS-6416XSFP is able to alert with the LED indicator and disable ring automatically. 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. 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 & Port based, Mac based DHCP, Option66, IPv6 DHCP server**

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Optional IPv6 address



resolution for DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-6416XSFP much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 16 MSTI MSTP; Optional MRP ring**

Lantech IGS-6416XSFP features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers multi-chain (under enhanced ring), train ring*, basic ring, multiple-VLAN ring* and auto-ring* by easy setup than others. The innovative auto-Ring* configurator (auto mode*) can calculate owner and neighbor in one step. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8/16* MSTI.

Optional MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

QoS by VLAN** for legacy device

QoS by VLAN** can allow switch to tag QoS by VLAN** regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a network.

QinQ**, QoS** and GVRP supported

It supports the QinQ**, QoS**, GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port and static multicast forwarding binding by ports for video surveillance application.

Hardware one-step PTP, transparent clock

Lantech IGS-6416XSFP features hardware-based one step PTP IEEE1588 v2 transparent clock function (end to end, peer to peer) which can allow all Gigabit TX ports to synchronize the network with precise accuracy

Editable configuration file; InstaView** for mass deployment

The configuration file of Lantech IGS-6416XSFP (IP67/IP54)

FEATURES & BENEFITS

- 16 100/1000T + 4 1G/2.5G/10G auto sensing SFP⁺ (Total 20 Ports Switch)
- 12V dual input from 9.5V~60VDC(12V model); HV single input from 90~305VAC/120~430VDC(HV model)
- Back-plane (Switching Fabric): 112Gbps
- 16K 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
- User friendly UI, auto topology drawing, topology

can be exported and edited with word processor for the other switches configuration with ease. The built-in watchdog design can automatically reboot the

switch when CPU is found dead.

With optional InstaView, the configuration files can be mass backup, mass-editable deployed and auto upgrading firmware in batch make maintenance easy.

2DI/2DO for relay contact and event alerting by email & traps

In case of event, the IGS-6416XSFP is able to send an email & SMS** text message to pre-defined addresses as well as SNMP Traps out immediately. It provides 2DI and 2DO. When 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.

Environmental monitoring for switch inside information

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

Dual power 12V or Single HV input

The Lantech IGS-6416XSFP is designed with dual power supply at 12VDC (12V model) for 9.5V~60VDC input. The HV model can have single 90~305VAC/120~430VDC input.

Industrial hardened design with high EFT and ESD protection

Lantech IGS-6416XSFP 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. Featured with relay contact alarm function, the IGS-6416XSFP is able to connect with alarm system in case of power failure or port disconnection. The IGS-6416XSFP also provides $\pm 2000V$ EFT and $\pm 6000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet.

It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

demo, complete CLI for professional setting		
Enhanced G.8032 Ring protection in 20ms for		
single ring		
Support various ring/chain topologies, including		
train ring*, enhanced ring, basic ring, auto ring*		
& multiple VLAN ring*		
Enhanced G.8032 ring configuration with ease		
 Auto ring* configuration(auto mode*) for single 		
ring		
 Cover multicast and data packets protection 		
Support one-step PTP, End to End, Peer to Peer		
w/transparent clock on all GigaTX		
Provides EFT protection ± 2000 VDC for power		
•		
line.		

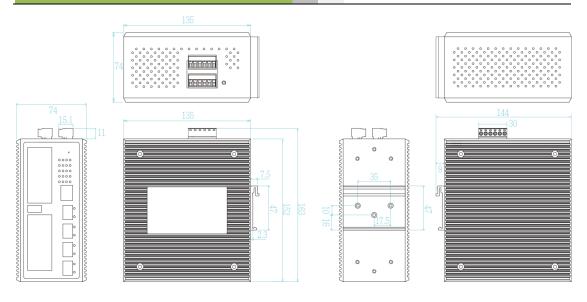
Datasheet Version 1.3 www.lantechcom.tw | info@lantechcom.tw

- Supports ±4000 VDC (Contact) and ±8000 VDC (Air)
 Ethernet ESD protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- QoS by VLAN** to prioritize all devices in the network
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 8/16* MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ**, QoS**
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech[™] InstaView^{**}
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66; IPv6 address resolution for DHCP server**
- Mac based DHCP server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
- 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/SFTP**/HTTP firmware upgrade; Lantech[™] InstaView** for multiple upgrade
- System Event Log, SMTP Email alert, SMS** mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/INGRESS/EGRESS ACL L2/L3

- Port Security: MAC address entries/Filter/static MAC-Port binding
- IP Security: IP address security management to prevent unauthorized intruder.
- · TACACS+
- Login Security: IEEE802.1X/RADIUS
- HTTPS for secure access to the web interface
- 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 for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia; GMRP
- Dual image firmware support*
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch when CPU is found dead
- Quick system booting up time under 50 seconds
- Environmental monitoring for system input voltage, current and ambient temperature
- Supports DIDO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports editable configuration file for system
 quick installation
 - Insta View** for centralized configuration
 deployment, backup & upgrade
 - USB port to upload/download firmware by USB
 dongle
- Wide operation temperature (-E model): -40C~75C/-40F~167F; Fan-less design
- IP30 metal housing with DIN rail and Wall-mount** design



DIMENSIONS (unit=mm)



SPECIFICATION

durana Crassifia

Hardware Specification				
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3ab 1000Base-T IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1d Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol			
	(LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag			
Switch Architecture	Back-plane (Switching Fabric): 112Gbps			
Mac Address	16K MAC address table			
Jumbo frame	10KB			
Connectors	10/100/1000T: 16 x ports RJ-45 with Auto			
	MDI/MDI-X function Mini-GBIC: 4 x 1G/2.5G/10G SFP+ auto-sensing socket with DDMI RS-232 connector: RJ-45 type USB x 1 Power & Relay connector: 1 x 6-pole terminal		LE DI/	
	block		יש	
Network Cable	DIDO : 1 x 6-pole terminal block 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		Ор	
	cable; EIA/TIA-568 100-ohm (100m)		Hu Op	
	1000Base-T: 4-pair UTP/STP Cat5E/6 cable; 10GBaseT:4-pair STP Cat6/6A/7 cable		Ter	
Optical Cable	1Gbps:		Sto	
	Multi mode: 0 to 550 m, 850 nm (50/125 µm); 0		Ter Po	
	to 2 km, 1310 nm (50/125 μm)		FU	
	Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm		Po	
	(9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km,		Co	
	1550 nm (9/125 μm) 2.5Gbps		Ca	
	Multi mode: 0 to 300 m, 850 nm (50/125 μm);		We	
	Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm		Ins	
	(9/125 μm); 0 to 40 km/ 80 km/ 100km, 1550 nm		E٨	

	(9/125 μm) WDM 1Gbps: Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) WDM 2.5Gbps Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm) 10Gbps Multi mode: 0 to 300 m, 850 nm (OM3 50/125 μm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm); WDM 10Gbps Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm)
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)
	Ethernet port: Link/Activity (Green), Speed (Green);
	Mini-GBIC: Link/Activity (Green)
DI/DO	2 Digital Input (DI) :
	Level 0: -30~2V / Level 1: 10~30V
	Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC,
	200mA
Operating Humidity	5% ~ 95% (Non-condensing)
Operating	-20°C~60°C / -4°F~140°F (Standard model)
Temperature	-40°C~75°C / -40°F~167°F(-E model)
Storage	-40°C~85°C / -40°F~185°F
Temperature	Dual 0.5. 60)/DC insut(42)/ model), Simple
Power Supply	Dual 9.5~60VDC input(12V model); Single 90~305VAC/120~430VDC input(HV model)
Power	Max. 25W (full load w/o PoE)
Consumption	
Case Dimension	Metal case. IP-30,
	74 (W) x 135 (D) x 152 (H) mm
Weight	900 g
Installation	DIN Rail and Wall Mount** Design
EMI & EMS	FCC Class A,

Datasheet Version 1.3

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Industrial 10G Uplink Managed Ethernet Switches



	CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8,	Network Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Stability Testing	CE EN61000-6-2 IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)		802.1X access control for port based and MAC based authentication/static MAC-Port binding Ingress/Egress ACL L2/L3
Railway compliance	EN50155:2017, EN50121-3-2:2015, EN50121-4:2015, EN61373:2010		SSL/ SSH for Management HTTPS for secure access to the web interface
MTBF	659,028.7 Hrs (IEC62830 standards)	IGMP	TACACS+ for Authentication Support IGMP snooping v1,v2,v3; Supports
Warranty Software S	5 years Specification		IGMP static route; 1024 multicast groups; IGMP router port ; IGMP query; GMRP
Management SNMP MIB	SNMP v1 v2c, v3/ Web/Telnet/CLI RFC 1215 Traps MIB*, RFC 1213 MIBII	Static multicast forwarding	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
	RFC 1158 MIBII RFC 1157 SNMP MIB,	Bandwidth	Support ingress packet filter and egress packet
	RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB,	Control	limit. The egress rate control supports all of packet type. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all types of packet.
	LLDP MIB RSTP MIB* Private MIB		The packet filter rate can be set an accurate value through the pull-down menu for the ingres
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single	Flow Control	packet filter and the egress packet limit. Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
	ring enhanced mode) Support various ring/chain topologies	System Log	Supports System log record and remote system log server
	Includes train ring*, auto ring*, basic single ring, enhanced ring, multiple-VLAN ring*	SMTP/Text SMS**	Supports SMTP Server and 8 e-mail accounts for receiving event alert; can send SMS** text alert via mobile
PTP v2	Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection Support hardware-based IEEE1588 PTPv2, End	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
	to End (1-step) and Peer to Peer (1-step) modes in Transparent Clock, on all TX ports	Protection	 Miss-wiring avoidance Repowered auto ring* restore Loop protection
User friendly UI Port Trunk with LACP	 Auto topology drawing Topology demo Auto configuration for G.8032(auto mode*) for single ring DDM threshold monitoring with dB values*** Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups 	SNMP Trap	Up to 10 trap stations; trap types including: Device cold start Authorization failure Port link up/link down DI/DO open/close Typology change(ITU ring) Power failure
	Supports LLDP to allow switch to advise its	DHCP	Environmental abnormal Provide DHCP Client/ DHCP
CDP	identification and capability on the LAN Cisco Discovery Protocol for topology mapping		Server/DHCP Option 82 (Client &
Environmental Monitoring	System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status		Server)/Port based DHCP; DHCP Option 66; IPv6 address resolution for DHCP server**
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID	Mac based DHCP Server	Assign IP address by Mac that can include duml switch in DHCP network
	(Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP, QinQ**, QoS**, Protocol based VLAN** ;	DNS SNTP	Provide DNS client feature and support Primary and Secondary DNS server. Supports SNTP to synchronize system clock in
IPv6/4	IPv4/IPv6 Subnet based VLAN** Present		Internet
Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8/16*MSTI	Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP	Configuration upload and download	Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for auto restore/backup
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues	Dual Image Firmware*	Support dual image firmware function
QoS by VLAN**	Tagged QoS by VLAN** for all devices in the network	*Future release **Optional	
IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.	***Optional DDM SFP required	
Login Security	Supports IEEE802.1X Authentication/RADIUS		
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"		



ORDERING INFOMATION

IGS-6416XSFP-12V.....P/N: 8350-868

16 10/100/1000T + 4 1G/2.5G/10G SFP+ L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Environmental Monitoring; dual 9.5V~60V input

- IGS-6416XSFP-12V-E.....P/N: 8350-869 16 10/100/1000T + 4 1G/2.5G/10G SFP+ L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Environmental Monitoring; dual 9 5V~60V input
- IGS-6416XSFP-HV.....P/N: 8350-870 16 10/100/1000T + 4 1G/2.5G/10G SFP+ L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Environmental Monitoring; Single 90~305VAC/120~430VDC

OPTIONAL ACCESSORIES

DIN Rail Power

- NDR-480 series 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) NDR-240 series 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ;
- NDR-120 series

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp, -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Mini GBIC (SFP)

8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver
8330-163X	MINI GBIC 1000SX2 (LC/2km) Transceiver
8330-165X	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
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) LTSFP-1000BX-80KM Transceiver (WDM 1550) 8330-185 **8330-262D** MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) 8330-263D MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver 8330-265D

10G Base SFP⁺ SR, Multi-mode (LC/300m) Transceiver 8330-193D **8330-194D** 10G Base SFP+ LR, Single-mode (LC/10km) Transceiver

8330-200D 10G Base SFP⁺, Single-mode(20km) Transceiver (WDM 1270)

8330-201D 10G Base SFP⁺ , Single-mode(20km) Transceiver

(WDM 1330) 8330-202D 10G Base SFP⁺, Single-mode(40km) Transceiver

(WDM 1270)

8330-203D 10G Base SFP⁺, Single-mode(40km) Transceiver (WDM 1330)

All SFP ended with D are with Diagnostic function

Lantech Communications Global Inc.

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IGS-6416XSFP-HV-E.....P/N: 8350-871 16 10/100/1000T + 4 1G/2.5G/10G SFP+ L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Environmental Monitoring; Single 90~305VAC/120~430VDC