

IGS-5408DFT-PT

2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T IEC-61850-3 Industrial

Managed Ethernet Switch w/ Enhanced G.8032 Ring & MMS

- Compliant with IEC61850-3 & IEEE1613
- Built-in MMS server based on IEC61850-90-4 switch data modeling for SCADA with monitoring and control
- 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 16MSTI / RSTP; support MRP ring
- 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, MLD snooping, DHCP server & DHCP Option82; DHCP Snooping, Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+**, QinQ



- Environmental Monitoring for temp, voltage and current
- Wide range dual DC input from 36V~72V with galvanic isolation
- USB port to backup, restore the configuration file and upgrade firmware (-U model)
- EN50121-4/50121-5 verification



















Lantech IGS-5408DFT-PT is a high performance L2+ (Gigabit uplink) switch with 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP that complies with IEC 61850-3 & IEEE 1613. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN model. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+**, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ are supported and also required in large network.

The built-in MMS server allows SCADA to control & monitor switch for data modeling.

Built-in MMS server for IEC61850 data modeling for monitoring and control

The built-in MMS (Manufacturing Messaging Specification) server can help SCADA to monitor and control switch by data modeling. It covers system, power, port status, environmental monitoring, network configuration.

Miss-wiring avoidance, Loop protection, Node failure protection

The IGS-5408DFT-PT 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-5408DFT-PT is able to alert with the LED indicator and disable ring automatically. 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.

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

Lantech IGS-5408DFT-PT 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 double ring, 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 RSTP over VLAN for redundant links with 16 MSTI.

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

DHCP option 82 & Port based, Mac based DHCP, Option66, DHCP Snooping, 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. DHCP Snooping is supported. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TETP server to DHCP client. Basic IPv6 DHCP service can be supported.







QoS by VLAN for legacy devices

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 and GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, MLD Snooping, 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, MLD snooping and static multicast forwarding binding by ports for video surveillance application.

802.1X security by MAC address

MAC-based port authentication is an alternative approach to 802.1x for authenticating hosts connected to a port. By authenticating based on the host's source MAC address, the host is not required to run a user for the 802.1x protocol. The RADIUS server that performs the authentication will inform the switch if this MAC can be registered in the MAC address table of switch.

Auto-provisioning for firmware/configuration update

The switch supports auto-provisioning for switch to auto-check the latest software image and configuration through TFTP server.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-5408DFT-PT much easier to get hands-on. The IGS-5408DFT-PT 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.

Editable configuration file; USB port for configuration upload & download

The configuration file of Lantech IGS-5408DFT-PT can be exported and edited with word processor for the other switches configuration with ease. The factory reset button can restore the setting back to factory default and built-in watchdog design can automatically reboot the switch when CPU is found dead.

The built-in USB port can have configuration upload & download by USB dongle.

Event log & message; 2 DI / 2 DO

In case of event, the IGS-5408DFT-PT is able to send an email to pre-defined addresses as well as SNMP Traps our immediately. It provides 2 DI and 2 DO. 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 when abnormal.

Wide range dual DC powered input with galvanic isolation; Relay contact alarm

The Lantech IGS-5408DFT-PT is designed with wide range dual power input from 18V~72VDC with galvanic isolation. Featured with relay contact alarm function, the IGS-5408DFT-PT is able to connect with alarm system in case of power failure or port disconnection. The IGS-5408DFT-PT also provides 4kV EFT, ±4kV Surge and ±15kV ESD air protection, which can reduce unstable situation caused by power line and

Industrial hardened design for extended temperature operation

Lantech IGS-5408DFT-PT 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.

FEATURES & BENEFITS

- 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP (Total 12 Ports Switch)
- Back-plane (Switching Fabric): 24Gbps
- 16K MAC address table
- Built-in MMS server for SCADA data-modeling with control and monitoring

DDM to support SFP diagnostic function***

- System info
 - Environmental monitoring
 - Power
 - Device event report
 - Port status
 - Port statistic
 - Port event report
 - Firmware upgrade
 - Network configuration

- 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 demo, complete CLI for professional setting
- Enhanced G.8032 Ring recovery < 20ms in 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
 - Covers multi-cast and data packets
- Provides 4kV EFT protection





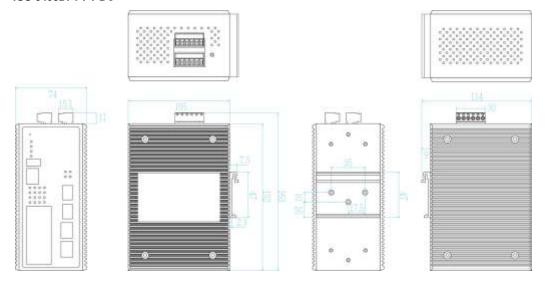
- Provides ±8kV (Contact) and ±15kV (Air) ESD protection
- Provides ±4kV Surge protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with with 16 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ,
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Snooping, DHCP Option 66; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address
- MLD Snooping for IPv6 Multicast stream
- **Bandwidth Control**
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
- Node failure protection
 - 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/HTTP firmware upgrade
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port for upload / download configuration by

USB dongle

- System Event Log and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
 - MAC address table: MAC address entries/Filter/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
- IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia; GMRP**
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch CPU is found dead
- Supports DIDO (2 Digital Input / 2 Digital Output)
- Wide range dual input power from 36V to 72V with
- Diagnostic including Ping / DDM information
- Environmental monitoring for system input voltage, current and ambient temperature.
- IP30 metal housing with DIN rail and Wall-mount** desian
- Auto Provision to verify switch firmware with the latest or certain version

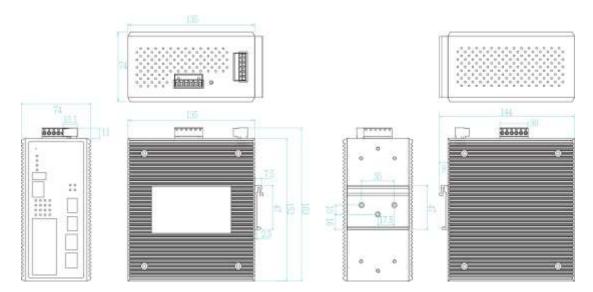
DIMENSIONS (unit=mm)

IGS-5408DFT-PT-DC





IGS-5408DFT-PT-HV



SPECIFICATION

Hardware Sp	ecification	
Standards	IEEE802.3 10Base-T Ethernet	
	IEEE802.3u 100Base-TX	
	IEEE802.3ab 1000Base-T Ethernet	
	IEEE802.3z Gigabit fiber	
	IEEE802.3x Flow Control and Back	
	Pressure	
	IEEE802.3ad Port trunk with LACP	
	IEEE802.1d Spanning Tree	
	IEEE802.1w Rapid 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): 24Gbps	
Transfer Rate	14,880pps for Ethernet port	LED
	148,800pps for Fast Ethernet port	
	1,488,000pps for Gigabit Ethernet / Gigabit	
	Fiber port	
Mac Address	16K MAC address table	DI/DO
Jumbo frame	10KB	
Connectors	10/100/1000T:10 x ports RJ-45 with Auto	
	MDI/MDI-X function	
	Mini-GBIC: 2 x 100/1000 SFP socket with	
	DDM	Operating Humidity
	RS-232 connector: RJ-45 type	Operating
	USB x 1 (-U model)	Temperature
	Power & Relay connector: 1 x 6-pole	Storage Temperatur
	terminal block	Power Supply
	DIDO : 1 x 6-pole terminal block	Power Consumption
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/	Case Dimension
	6 cable	
	EIA/TIA-568 100-ohm (100m)	
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6	Weight
	cable	Installation
	EIA/TIA-568 100-ohm (100m)	EMI & EMS
	1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/	
	6 cable	
	EIA/TIA-568 100-ohm (100m)	
Optical Cable	1.25Gbps:	

LED	Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) 125Mbps: Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 μm) Single mode: 0 to 30 km, 1310 nm (62.5/125 μm) WDM 1.25Gbps: 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 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 125Mbps: Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 μm); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red), RM(Green) Ethernet port: Link/Activity (Green), Speed		
DI/DO	(Green); Mini-GBIC: Link/Activity (Green) 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	-40°C~85°C / -40°F~185°F (Standard		
Temperature	-40°C~85°C / -40°F~185°F (Standard model)		
Storage Temperature	-40°C~85°C / -40°F~185°F		
Power Supply	36 to 72 VDC with galvanic isolation		
Power Consumption	10W		
Case Dimension	Metal case. IP-30, DC model: 74 (W) x 105 (D) x 152 (H) mm HV model: 74 (W) x 135 (D) x 152 (H) mm		
Weight	900 g		
Installation	DIN Rail and Wall Mount** Design		
EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024,		
		IEC 61850-3	1613
	IEC	Contact:	Contact:



	2 ESD ±8 kV	±8 kV; Air: ±15 kV		assigned from 1 to 4096) GVRP, QinQ, Protocol based VLAN; IPv4 Subnet based VLAN
	61000-4- 3000 3 RS MHz: 10 V/m	80 to 1000 MHz: 20 V/m	RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree with 16
	IEC 220VAC: Power 61000-4- Signal: 4 kV 4 EFT 48VDC: Power	,	Quality of Service	MSTI The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4
	IEC DC power: Line 61000-4- 1 kV; Line to e	e to line: ±	Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
	5 Surge kV		MLD Snooping	Support IPv6 Multicast stream
	AC power: Line 2 kV; Line to e		Login Security	Supports IEEE802.1X Authentication/RADIUS
	kV Signal: Line to		Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	kV; Line to ear		Network Security	Support 10 IP addresses that have permission to access the switch
	61000-4- Signal: 10V 6 CS 48VDC: Power	r: 10V		management and to prevent unauthorized intruder.
	IEC 61000-4-8 PFMF			802.1X access control for port based and
	IEC 61000-4-11 DIPs CE EN61000-6-2			MAC based authentication/MAC-Port binding
Stability Testing	IEC60068-2-32 (Free fall),			Management access control with priority
	IEC60068-2-27 (Shock),			Ingress/Egress ACL L2/L3 SSL/ SSH v2 for Management
Railway compliance	IEC60068-2-64 (Vibration) EN 50121-4 ,			HTTPS for secure access to the web
Railway compliance	EN 50121-4 , EN 50121-5			interface TACACS+** for Authentication
Substation Verification	IEC 61850-3			MAC filter
	IEEE 1613		IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 256 multicast groups;
Safety	IEC/BS EN IEC 62368-1 2020/	A11:2020		IGMP router port ; IGMP query; GMRP,
MTBF	830,589 hrs		01 11 NA 0 D 1	QinQ, QOS by VLAN
Warranty	5 years		Static MAC-Port bridge	Static multicast forwarding forward reversed IGMP flow with multicast
Software Spec	SNMP v1 v2c, v3/ Web/Telnet/	CLI	2.1.290	packets binding with ports for IP
SNMP MIB	MIB		Bandwidth Control	surveillance application Support ingress packet filter and egress
	MIBII SNMP MIB			packet limit.
	Bridge MIB			The egress rate control supports all of
	IF MIB			packet type. Ingress filter packet type combination rules
	RMON MIB Private MIB			are Broadcast/Multicast/Flooded Unicast
ITU G.8032	Support ITU G.8032 v2/2012 fo	or Ring		packet, Broadcast/Multicast packet, Broadcast packet only and all types of
	protection in less than 20ms for	self-heal		packet.
	recovery (single ring) Support various ring/chain topo	logies		The packet filter rate can be set an accurate value through the pull-down menu
	covering multi-cast and data pa	nckets		for the ingress packet filter and the egress
	Includes train ring & double ring topologies etc	g 12		packet limit.
	Enhanced G.8032 ring configur	ation with	RTC	Built-in Real Time Clock to keep track of time always
	ease Co-exist with RSTP on differen	t ports	Flow Control	Supports Flow Control for Full-duplex and
MMS Data Modeling	■ System info		System Log	Back Pressure for Half-duplex Supports System log record and remote
	■ Environmental mo ■ Power	onitoring		system log server(RFC3164)
	■ Device event repo	ort	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm.
	■ Port status ■ Port statistic			Alarm Relay current carry ability: 1A @
	Port event report		Protection	DC24V Miss-wiring avoidance
	■ Firmware upgrade ■ Network configura			■ Node failure protection
User friendly UI	Auto topology dra		CNIMP T	Loop protection
	■ Topology demo		SNMP Trap	Up to 10 trap stations; trap types including: Device cold start
	■ DDM threshold m with dB values***	onitoring		Authorization failure
	■ Complete CLI for	professional		■ Port link up/link down ■ DI/DO open/close
Port Trunk with LACP	setting LACP Port Trunk: 8 Trunk			■ Typology change(ITU ring)
LLDP	groups/Maximum 8 trunk memb Supports LLDP to allow switch			■ Power failure ■ Environmental abnormal**
	identification and capability on		DHCP	Provide DHCP Client/ DHCP Server/DHCP
CDP	Cisco Discovery Protocol for to mapping			Option 82/Port based DHCP; DHCP Snooping, DHCP Option 66; basic IPv6
Environmental	System status for input voltage		Mac based DHCP	DHCP server Assign IP address by Mac
Monitoring**	ambient temperature to be shown and sent alerting if any abnorm		Server	
	model)		DNS	Provide DNS client feature
VLAN	Port Based VLAN	ntring)/	Diagnostic SNTP	Support Ping and DDM information Supports Dual NTP server to synchronize
	IEEE 802.1Q Tag VLAN (256 e VLAN ID (Up to 4K, VLAN ID c			system clock in Internet
	(·-		



			_
Firmware Update	Supports TFTP firmware update, TFTP		USB port to upload/download firmware by
	backup and restore; HTTP firmware		USB dongle
	upgrade	Auto Provision	To verify switch firmware with the latest or
Configuration backup	Supports text configuration file for system		certain version
& restore	quick installation		*Future release
	N-key** for mass firmware auto-backup,		**Ontions

**Optional DDM SFP required

ORDERING INFORMATION

IGS-5408DFT-PT-DC..........P/N: 8350-8252 2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T IEC61850-3 Managed Ethernet Switch w/ USB slot, Enhanced Ring & MMS, environmental monitoring, w/ dual 36V~72VDC input; -40°C to 85°C

■ IGS-5408DFT-PT-HV......P/N: 8350-8254

editable restoration and auto upgrade

 $2\ 10/100/1000T+2x100/1000\ SFP+8\ 10/100/1000T\ IEC61850-3\ Managed\ Ethernet\ Switch\ w/\ USB\ slot,\ Enhanced\ Ring\ \&\ MMS,\ environmental\ monitoring,\ w/\ One\ isolated\ 90~305VAC/120~430VDC\ power\ supply;\ -40°C\ to\ 85°C$

OPTIONAL ACCESSORIES

DIN Rail Power for DC model

■ MDR-40 Series 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)

■ MDR-20 Series 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC 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)

•	•		
8330-162D-V1	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	8330-187D-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8330-163D-V1	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	8330-180D-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-165D-V1	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	8330-182D-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8340-0591D-V1	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	8330-181D-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
8330-166D-V1	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	8330-183D-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
8330-169D-V1	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	8330-184D-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
8330-167D-V1	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	8330-185D-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
8330-170D-V1	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	8330-071D-V1	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
8330-168-V1	MINI GBIC 10/100/1000T (100m) Transceiver	8330-072D-V1	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
8330-060D-V1	MINI GBIC 100Base (LC/MM/2KM) Transceiver	8330-069D-V1	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
8330-065D-V1	MINI GBIC 100Base (LC/MM/5KM) Transceiver	8330-068D-V1	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
8330-061D-V1	MINI GBIC 100Base (LC/SM/30KM) Transceiver	8330-080D-V1	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
8330-197D-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM	8330-082D-V1	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
1310)		8330-081D-V1	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
8330-198D-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM	8330-083D-V1	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
1550)		8330-084D-V1	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
8330-195D-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	8330-085D-V1	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
8330-196D-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	8330-191D-V1	Dual Speed SFP 100M/1000M-LX 10KM
8330-188D-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	Transceiver	
8330-189D-V1	1,25Gbps BiDi SFP 10KM Transceiver (WDM 1550)	All SFP# ended v	with D are with DDM function

Wall Mount Bracket

8330-186D-V1

MBAK19003 Wall mount bracket for 74(W) x 105 (D) x 152 (H) mm / 96 (W) x 105 (D) x 152 (H) mm Industrial switches

MBAK19004 19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Switch

1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)

Lantech Communications Global Inc.

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