

IPES-5408DFT-PT

8 10/100TX + 2 10/100/1000T + 2 100/1000M SFP PoE at/af L2+

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
- Support IEEE802.3at/af up to 30W per port
- PoE management incl. Detection and Scheduling
- Enhanced G.8032 ring protection < 20ms with 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; Port based DHCP distribution, Mac based DHCP server, DHCP Snooping, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+**, QinQ
- Protocol based VLAN**: IPv4/IPv6 Subnet based VLAN**.
- ±48VDC input ranges from ±44V~±56V
- USB port and N-key** to backup, restore the configuration file and upgrade firmware
- Environmental Monitoring for temp., voltage & current
- EN50121-4/50121-5 verification

















OVERVIEW

Lantech IPES-5408DFT is a high performance L2+ (Gigabit uplink) Ethernet switch with 8 10/100TX+2 10/100/1000T+2 Dual Speed 100/1000M SFP w/8 PoE 802.3af/at ports with total PoE budget 120W which complies with IEC 61850-3 & IEEE 1613. It provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms covering multicast and data packets. 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. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

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.

Up to 8 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech IPES-5408DFT is able to feed each PoE port up to 30 Watt, total PoE budget 120W. Lantech IPES-5408DFT supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD hangs then restart the



PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE port can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, Loop protection, Node failure protection

The IPES-5408DFT 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 IPES-5408DFT 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 < 20ms for single ring recovery; auto ring, double ring, multi-chain covering multicast packets; MSTP with 16 MSTI

Lantech IPES-5408DFT 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 TFTP 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(C-tag and S-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

Auto topology drawing, User friendly UI, Complete CLI, DMI with dB value***

The user friendly UI, innovative auto topology drawing and topology demo makes IPES-5408DFT much easier to get hands-on. The switch also equips the RTC (real time clock) which can keep track of time always. The IPES-5408DFT 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.

Exported configuration text file; Factory reset button; CPU watchdog; Built-in RTC

The configuration file of Lantech IPES-5408DFT 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 builtin watchdog design can automatically reboot the switch when CPU is found dead.

USB port & N-key** for back up, restore configuration and upgrade firmware

The built-in USB port can upload/download the firmware through USB dongle for switch replacement

With optional N-key**, the configuration file can be mass auto backup, editable restored and auto upgrade firmware for easy maintenance.

2DI / 2DO relay to alarm and email/trap

The IPES-5408DFT 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 IPES-5408DFT will immediately send an email message to predefined 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.

Optional environmental monitoring** for switch inside information (-M model)



The environmental monitoring can detect switch overall temperature, voltage, total PoE load and current where can send the SNMP traps and email when abnormal.

DC powered input; Relay contact alarm

The Lantech IPES-5408DFT is designed with ±48VDC power input ranges from ±44V~±56VDC. Featured with relay contact alarm function, the IPES-5408DFT is able to connect with alarm system in case of power failure or port disconnection. The IPES-5408DFT also provides 4kV EFT, ±4kV Surge and ±15kV ESD air protection, which can reduce unstable situation caused by power line and Ethernet.

High reliability and extended working temperature

Lantech IPES-5408DFT 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.

Can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- 8 10/100TX + 2 10/100/1000T + 2 Dual Speed 100/1000M SFP w/8 PoE 802.3af/at ports (Total 12 Ports Switch)
- Embedded 8 PoE ports IEEE802.3af/at function to feed power up to 30W for active mode operation.
- Max. PoE budget: 120W
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 9.6Gbps
- 16K MAC address table
- Built-in MMS server for SCADA data-modeling with control and monitoring
- System info
- **Environmental monitoring**
- Power
- Device event report
- Port status
- Port statistic
- Port event report
- Firmware upgrade
- **Network configuration**
- 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 demo, complete CLI for professional setting
- Enhanced G.8032 Ring recovery < 20ms in single ring
 - Support various ring/chain topologies, including train ring
 - Enhanced G.8032 ring configuration with ease
 - Auto ring configuration(auto mode) for single
 - Ring covers multicast on different ports
 - Covers multi-cast and data packets
- Built-in RTC (Real Time Clock) to keep track of time
- Provides 4kV EFT protection
- Provides ±8kV (Contact) and ±15kV (Air) ESD protection
- Provides ±4kV Surge protection

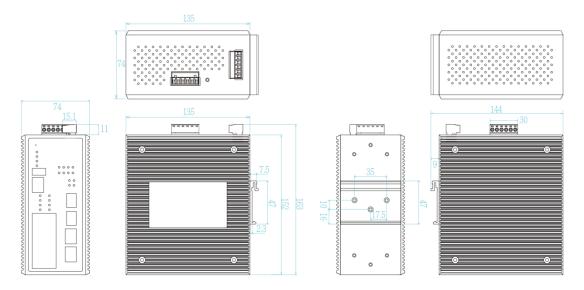
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP **VLAN redundancy with 16 MSTI**
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info 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
 - Email or traps
- 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; Exported configuration file
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - N-key** for mass firmware auto-backup, editable restoration and auto upgrade
 - USB port to download/upload firmware by USB
- System Event Log and SNMP Trap for alarm support; 32 RMON counters
- Security



- SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
- TACACS+**
- MAC address table: 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
- 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 and for reversed multicast video flow

- IGMPv1,v2,v3 with Query mode for multimedia;
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch CPU is found dead
- Diagnostic including Ping / DDM information
- Environmental monitoring for system input voltage, current, total PoE load and ambient temperature (-M model)
- Supports DIDO (2Digital Input/2Digital Output)
- ±48Vinput power from ±44V to ±56V
- IP30 metal housing with DIN rail and Wall-mount** design
- Auto Provision to verify switch firmware with the latest or certain version

DIMENSIONS (unit=mm)

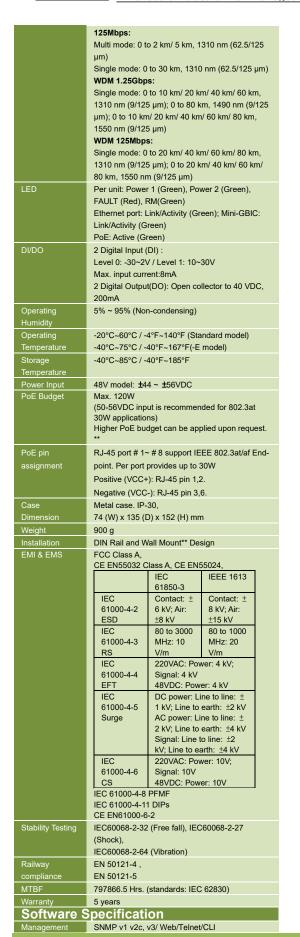


SPECIFICATION

Hardware Specification Jumbo frame 10KB					
Standards IEEE802.3 10Base-T Ethernet		Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X		
Otandards	IEEE802.3u 100Base-TX	Commodoro	function		
	IEEE802.3ab 1000Base-T Ethernet		10/100/1000T: 2 x ports RJ-45 with Auto		
	IEEE802.3z Gigabit fiber		MDI/MDI-X function		
	IEEE802.3x Flow Control and Back Pressure		Mini-GBIC: 2 x Dual Speed 100/1000M SFP		
	IEEE802.3ad Port trunk with LACP		socket with DDM		
	IEEE802.1d Spanning Tree		RS-232 connector: RJ-45 type		
	IEEE802.1w Rapid Spanning Tree		Power & Relay connector: 1 x 6-pole terminal		
	IEEE802.1s Multiple Spanning Tree		block		
	IEEE802.3ad Link Aggregation Control Protocol		DIDO : 1 x 6-pole terminal block		
	(LACP)	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6		
	IEEE802.1AB Link Layer Discovery Protocol		cable		
	(LLDP)		EIA/TIA-568 100-ohm (100m)		
	IEEE802.1X User Authentication (Radius)		100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		
	IEEE802.1p Class of Service		EIA/TIA-568 100-ohm (100m)		
	IEEE802.1Q VLAN Tag		1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6		
	IEEE802.3at/af Power over Ethernet		cable		
Switch	Back-plane (Switching Fabric): 9.6Gbps		EIA/TIA-568 100-ohm (100m)		
Architecture		Optical Cable	1.25Gbps:		
Transfer Rate	14,880pps for Ethernet port		Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to		
	148,800pps for Fast Ethernet port		2 km, 1310 nm (50/125 μm)		
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber		Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm		
	port		(9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km,		
Mac Address	16K MAC address table		1550 nm (9/125 μm)		

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SNMP MIB	MIB		
	MIBII		
	SNMP MIB Bridge MIB		
	IF MIB		
	RMON MIB		
	Private MIB		
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single		
	ring)		
	Support various ring/chain topologies covering		
	multi-cast and data packets		
	Includes train ring & double ring 12 topologies etc Enhanced G.8032 ring configuration with ease		
	Co-exist with RSTP on different ports		
MMS Data	System info		
Modeling	Environmental monitoringPower		
	 Device event report 		
	■ Port status		
	Port statisticPort event report		
	Firmware upgrade		
	 Network configuration 		
PoE Management	PoE Detection to check if PD hangs then restart		
Management	the PD; PoE configuration; PoE monitoring; PoE Scheduling to On/OFF PD upon routine time table		
Per Port PoE	Enable/Disable, voltage, current, watts,		
Status	temperature Auto topology drawing		
User friendly UI	Auto topology drawingTopology demo		
	■ DDM threshold monitoring with dB		
	values*** Complete CLI for professional		
	 Complete CLI for professional setting 		
Port Trunk with	LACP Port Trunk: 8 Trunk groups/Maximum 8		
LACP	trunk members		
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN		
CDP	Cisco Discovery Protocol for topology mapping		
Environmental	System status for input voltage, current and		
Monitoring**	ambient temperature to be shown in GUI and sent alerting if any abnormal status(-M model)		
VLAN	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, QinQ, Protocol based VLAN; IPv4 Subnet		
DetD/MetD	based VLAN		
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s		
	Multiple Spanning Tree with 16 MSTI		
Quality of	The quality of service determined by port / CoS /		
Service Class of Service	ToS / VLAN / 61375-3-4 Support IEEE802.1p class of service, per port		
	provides 8 priority queues		
MLD Snooping	Supports IEEE803.1 X Authorization / BADILIS		
Login Security Port Mirror	Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both		
	packet"		
Network	Support 10 IP addresses that have permission to		
Security	access the switch management and to prevent unauthorized intruder.		
	802.1X access control for port based and MAC		
	based authentication/MAC-Port binding		
	Management access control with priority Ingress/Egress ACL L2/L3		
	SSL/ SSH v2 for Management		
	HTTPS for secure access to the web interface TACACS+** for Authentication		
	MAC filter		
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP		
	static route; 256 multicast groups; IGMP router port ; IGMP query; GMRP, QinQ, QOS by VLAN		
Static MAC-Port	Static multicast forwarding forward reversed		
bridge	IGMP flow with multicast packets binding with		
Bandwidth	ports for IP surveillance application Support ingress packet filter and egress packet		
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. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter and the egress packet limit.		
RTC	Built-in Real Time Clock to keep track of time always		
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex		
System Log	Supports System log record and remote system log server(RFC3164)		
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V		
Protection	Miss-wiring avoidanceNode failure protectionLoop protection		
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		

Environmental abnormal**
Provide DHCP Client/ DHCP Server/DHCP
Option 82/Port based DHCP; DHCP Snooping,
DHCP Option 66; basic IPv6 DHCP server
Assign IP address by Mac
Provide DNS client feature
Support Ping and DDM information
Supports Dual NTP server to synchronize system
clock in Internet
Supports TFTP firmware update, TFTP backup
and restore; HTTP firmware upgrade
Supports text configuration file for system quick
installation
N-key** for mass firmware auto-backup, editable
restoration and auto upgrade
USB port to upload/download firmware by USB
dongle
To verify switch firmware with the latest or certain
version

*Future release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

IPES-5408DFT-PT......P/N: 8350-600

2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at IEC61830-3 L2+ Industrial Managed Ethernet Switch w/USB slot, Enhanced Ring & MMS, $\pm 444 \sim \pm 56$ VDC input; -20°C to 60°C

■ IPES-5408DFT-PT-E......P/N: 8350-6001

2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at IEC61850-3 L2+ Industrial Managed Ethernet Switch w/USB slot, Enhanced Ring & MMS, \pm 44 ~ \pm 56VDC input; -40°C to 75°C

■ IPES-5408DFT-PT-M......P/N: 8350-601

2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at IEC61850-3 L2+ Industrial Managed Ethernet Switch w/USB slot, Enhanced Ring & MMS, \pm 44 ~ \pm 56VDC input w/ environmental monitoring; -20°C to 60°C

■ IPES-5408DFT-PT-M-E......P/N: 8350-6011

2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at IEC61850-3 L2+ Industrial Managed Ethernet Switch w/USB slot, Enhanced Ring & MMS;±44 ~ ±56VDC input w/ environmental monitoring; -40°C to 75°C

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;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

NDR-120 Series

120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by fr

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; For 115VAC, please refer to

derating curve on NDR-120 Series datasheet)

■ NDR-75 Series 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2;

derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

8330-162-V1	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	8330-189-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
8330-163-V1	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	8330-186-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)
8330-165-V1	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	8330-187-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8340-0591-V1	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	8330-180-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-166-V1	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	8330-182-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8330-169-V1	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	8330-181-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
8330-167-V1	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	8330-183-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
8330-170-V1	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	8330-184-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
8330-168-V1	MINI GBIC 10/100/1000T (100m) Transceiver	8330-185-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
8330-060-V1	MINI GBIC 100Base (LC/MM/2KM) Transceiver	8330-071-V1	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
8330-065-V1	MINI GBIC 100Base (LC/MM/5KM) Transceiver	8330-072-V1	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
8330-061-V1	MINI GBIC 100Base (LC/SM/30KM) Transceiver	8330-069-V1	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
8330-197-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	8330-068-V1	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
8330-198-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	8330-080-V1	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
8330-195-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	8330-082-V1	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
8330-196-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	8330-081-V1	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
8330-188-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	8330-083-V1	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver



8330-084-V1 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver 8330-191-V1 Dual Speed SFP 100M/1000M-LX 10KM Transceiver

■ 8330-085-V1 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver All SFP# ended with D are with DDM function

Wall Mount Bracket

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

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