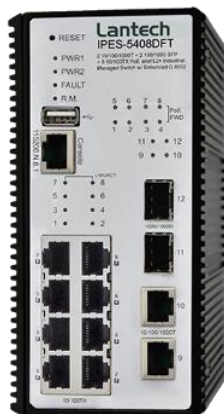


IPES-5408DFT

8 10/100TX + 2 10/100/1000T + 2 100/1000M SFP PoE at/af L2+
Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring



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 provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms covering multi-cast and data packets, comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, SSH v2/SSL, TACACS+**, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ (double tag VLAN) which are important features required in train and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

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 send out an email or traps. 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 by easy setup than others. The innovative node failure protection can calculate owner and neighbor in one step. It supports MSTP that allows RSTP over VLAN for redundant links with 8 MSTI. The ITU G.8032 Ring and RSTP can be co-existed in the same switch with different ports for the most flexible protection.

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 server.

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 built-in 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 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.

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

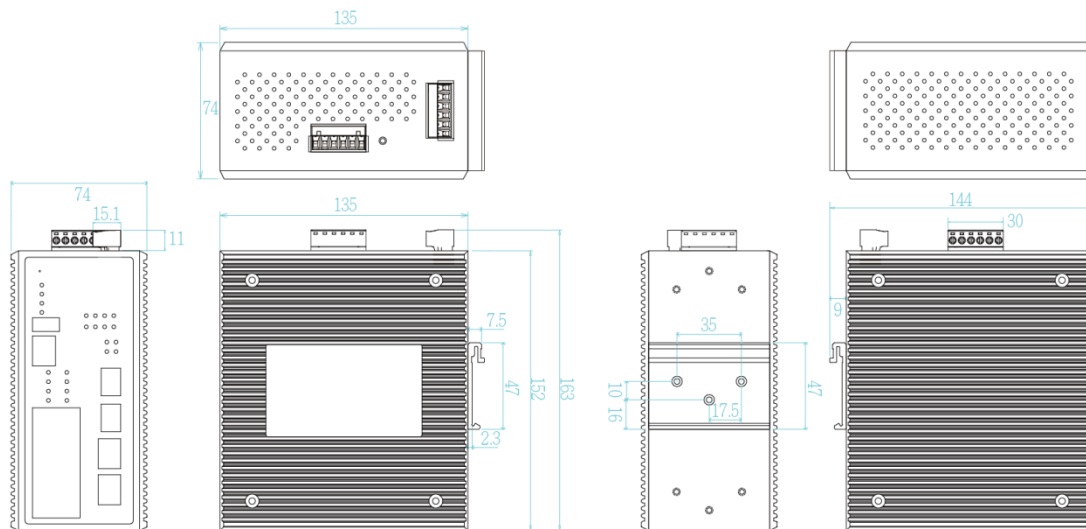
The Lantech IPES-5408DFT is designed with ± 48 VDC power input ranges from ± 44 V~ ± 56 VDC. Optional 12V model can accept power input from 9.5V~56VDC. Featured with relay contact alarm function, the IPES-5408DFT is able to connect with alarm system in case of power failure or port disconnection. The IPES-5408DFT also provides ± 2000 V EFT and ± 6000 V ESD 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 EM/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.

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification

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 IEEE802.3at/af Power over Ethernet	socket with DDM RS-232 connector: RJ-45 type Power & Relay connector: 1 x 6-pole terminal block DIDO : 1 x 6-pole terminal block
Switch Architecture	Back-plane (Switching Fabric): 9.6Gbps	
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Network Cable
Mac Address	16K MAC address table	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
Jumbo frame	10KB	Optical Cable
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function 10/100/1000T: 2 x ports RJ-45 with Auto MDI/MDI-X function Mini-GBIC: 2 x Dual Speed 100/1000M SFP	1.25Gbps: 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 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/

LED	80 km, 1550 nm (9/125 μm) Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red), RM(Green) Ethernet port: Link/Activity (Green); Mini-GBIC: Link/Activity (Green) PoE: Active (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 Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Power Input	48V model: ±44 ~ ±56VDC ; 12V model: 9.5~56VDC
PoE Budget	Max. 120W (50-56VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. **
PoE pin assignment	RJ-45 port # 1 ~ # 8 support IEEE 802.3at/af End-point. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
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 Part 15 Class A EN 55011:2009 +A1:2010 (Group 1 Class A) EN 61000-6-2: 2005 IEC 61000-4-2 (ESD) 2008, IEC 61000-4-3 (RS): 2006 +A1: 2007 +A2: 2010 IEC 61000-4-4 (EFT): 2012 IEC 61000-4-5 (Surge): 2005 IEC 61000-4-6 (CS): 2008 IEC 61000-4-8 (Magnetic field): 2009 BS EN55032, BS EN55024, BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-8
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-64 (Vibration)
Railway compliance	EN 50121-4 , EN 50121-5
Safety	IEC/BS EN IEC 62368-1 2020/A11:2020
MTBF	797866.5 Hrs. (standards: IEC 62380)
Warranty	5 years
Software Specification	
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
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
PoE Management	PoE Detection to check if PD hangs then restart the PD; PoE configuration; PoE monitoring

Per Port PoE Status	Enable/Disable, voltage, current, watts, temperature
User friendly UI	<ul style="list-style-type: none"> ■ 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
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups/Maximum 8 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 Monitoring**	System status for input voltage, current and 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 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 Service	The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
MLD Snooping	Support IPv6 Multicast stream
Login Security	Supports IEEE802.1X Authentication/RADIUS
Port Mirror	Support 3 mirroring types: *RX, TX and Both packet*
Network Security	Support 10 IP addresses that have permission to 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**
Static MAC-Port bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Bandwidth Control	Support ingress packet filter and egress packet 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	<ul style="list-style-type: none"> ■ Miss-wiring avoidance ■ Node failure protection ■ Loop protection
SNMP Trap	Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> ● Device cold start ● Authorization failure ● Port link up/link down ● DI/DO open/close ● Typology change(ITU ring) ● Power failure ● Environmental abnormal**
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP; DHCP Option 66; DHCP Snooping; basic IPv6 DHCP server
Mac based DHCP Server	Assign IP address by Mac

DNS	Provide DNS client feature
SNTP	Supports Dual NTP server to synchronize system clock in Internet
Diagnostic	Support Ping and DDM information
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Configuration backup & restore	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
Auto Provision	To verify switch firmware with the latest or certain version

*Future release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

- **IPES-5408DFT.....P/N: 8350-53841**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, ±44 ~ ±56VDC input; -20°C to 60°C
- **IPES-5408DFT-E.....P/N: 8350-53851**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, ±44 ~ ±56VDC input; -40°C to 75°C
- **IPES-5408DFT-12V.....P/N: 8350-53861**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, dual 9.5 ~ 56VDC input; -20°C to 60°C
- **IPES-5408DFT-12V-E.....P/N: 8350-53871**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, dual 9.5 ~ 56VDC input; -40°C to 75°C
- **IPES-5408DFT-M.....P/N: 8350-5384**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, ±44 ~ ±56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPES-5408DFT-M-E.....P/N: 8350-5385**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, ±44 ~ ±56VDC input w/ environmental monitoring; -40°C to 75°C
- **IPES-5408DFT-M-12V.....P/N: 8350-5386**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, dual 9.5 ~ 56VDC input w/ environmental monitoring; -20°C to 60°C
- **IPES-5408DFT-M-12V-E.....P/N: 8350-5387**
 2 10/100/1000T+ 2 Dual Speed 100/1000M SFP + 8 10/100TX w/8 PoE af/at up to 30W L2+ Industrial Managed Ethernet Switch w/USB slot, dual 9.5 ~ 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 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 ; 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)

Mini GBIC (SFP)

- | | |
|---|--|
| ■ 8330-162D-V1 MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-170D-V1 MINI GBIC 1000EZ (LC/SM/120KM) Transceiver |
| ■ 8330-163D-V1 MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-168-V1 MINI GBIC 10/100/1000T (100m) Transceiver |
| ■ 8330-165D-V1 MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-060D-V1 MINI GBIC 100Base (LC/MM/2KM) Transceiver |
| ■ 8340-0591D-V1 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-065D-V1 MINI GBIC 100Base (LC/MM/5KM) Transceiver |
| ■ 8330-166D-V1 MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-061D-V1 MINI GBIC 100Base (LC/SM/30KM) Transceiver |
| ■ 8330-169D-V1 MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-197D-V1 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) |
| ■ 8330-167D-V1 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | |

■ 8330-198D-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	■ 8330-071D-V1	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
■ 8330-195D-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	■ 8330-072D-V1	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
■ 8330-196D-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	■ 8330-069D-V1	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
■ 8330-188D-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	■ 8330-068D-V1	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
■ 8330-189D-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)	■ 8330-080D-V1	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
■ 8330-186D-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)	■ 8330-082D-V1	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
■ 8330-187D-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)	■ 8330-081D-V1	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
■ 8330-180D-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)	■ 8330-083D-V1	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
■ 8330-182D-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)	■ 8330-084D-V1	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
■ 8330-181D-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)	■ 8330-085D-V1	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
■ 8330-183D-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)	■ 8330-191D-V1	Dual Speed SFP 100M/1000M-LX 10KM Transceiver
■ 8330-184D-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)		
■ 8330-185D-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)		

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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