



8 10/100TX + 4 1000 SFP L2+ Industrial Managed Ethernet Switch w/

enhanced G.8032 Ring

- 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
- Protocol based VLAN; IPv4 Subnet based VLAN
- Optional Environmental Monitoring** for temp., voltage and current.

















OVERVIEW

Lantech IES-3408GSFP is a high performance L2+ (Gigabit uplink) switch with 8 10/100TX + 4 1000M 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 while also supports train ring, enhanced mode, multiple VLAN model with easy configuration. 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) for Ciscoworks to detect the switch info and show on L2 map topology.

Miss-wiring avoidance, Loop protection, Node failure protection

The IES-3408GSFP also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IES-3408GSFP 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. 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, 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.

Auto-provisioning for firmware/configuration update

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

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IES-3408GSFP 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; MRP ring

Lantech IES-3408GSFP 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 each spanning tree for each VLAN for redundant links with 16 MSTI.

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



Editable configuration file

The configuration file of Lantech IES-3408GSFP 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.

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 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.

Event log & message; 2DI / 2DO

In case of event, the IES-3408GSFP is able to send an email 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.

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

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

Wide range dual DC powered input with galvanic isolation; Relay contact alarm, High ESD protection

The Lantech IES-3408GSFP is designed with dual power supply at 12/24/48VDC (9.5~60VDC) or single power supply at 90~305VAC/120~430VDC. Featured with relay contact alarm function, the IES-3408GSFP is able to connect with alarm system in case of power failure. The IES-3408GSFP also provides ±2000V EFT/SURGE and ±4000 VDC (Contact) / ±8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IES-3408GSFP features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

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

FEATURES & BENEFITS

- 8 10/100TX + 4 1000M SFP (Total 12 Ports Switch)
- Back-plane (Switching Fabric): 9.6Gbps
- 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 demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms < 256 switches
 - 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
 - Cover multicast and data packets protection
- Dual DC input from 9.5V~60VDC, HV model with single 90~305VAC or 120~430VDC power input

- Provides EFT protection ±2000 VDC for power line.
- 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
- 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, QoS
- 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 Option 66; DHCP Snooping; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address
- Bandwidth Control

- Ingress packet filter and egress rate limit
- Broadcast/multicast packet filter control
- Relay alarm output system events

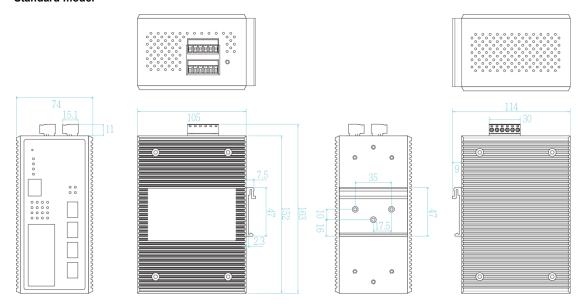


- Miss-wiring avoidance
 - LED indicator
- Node failure protection
 - Ensure the switches in a ring to survive after power breakout is back
 - The status can be shown in NMS when each switch is back
- TFTP/ HTTP firmware upgrade
- System Event Log and SNMP Trap for alarm support; 32 RMON counters
- Security
 - 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
- Multicast VLAN registration* for metro video
- 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
- Environmental monitoring for system input voltage, current and ambient temperature (-M model)
- Supports 2DI / 2DO (Digital Input/Digital Output)
- MLD Snooping for IPv6 Multicast stream
- Diagnostic including Ping / DDM information
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
- IP30 metal housing with DIN rail and Wall-mount**
- Auto Provision to verify switch firmware with the latest or certain version

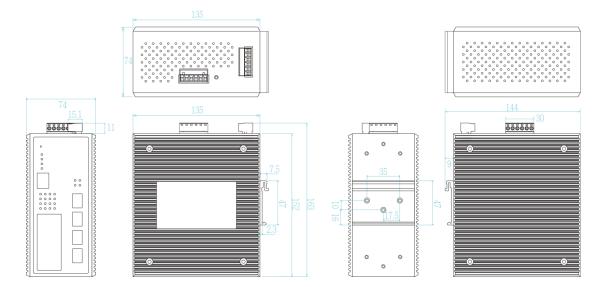
DIMENSIONS (unit=mm)

Standard model





HV model



SPECIFICATION

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Hardware Specification			Single mode: 0 to 10 km/ 30 km/ 40 km,
Standards	IEEE802.3 10Base-T Ethernet		1310 nm (9/125 µm); 0 to 50 km/ 60 km/
	IEEE802.3u 100Base-TX		80km/ 120 km, 1550 nm (9/125 μm)
	IEEE802.3z Gigabit fiber		WDM 1.25Gbps:
	IEEE802.3x Flow Control and Back		Single mode: 0 to 10 km/ 20 km/ 40 km/
	Pressure		60 km, 1310 nm (9/125 μm); 0 to 80 km,
	IEEE802.3ad Port trunk with LACP		1490 nm (9/125 µm); 0 to 10 km/ 20 km/
	IEEE802.1d Spanning Tree		40 km/ 60 km/ 80 km, 1550 nm (9/125
	IEEE802.1w Rapid Spanning Tree		μm)
	IEEE802.1s Multiple Spanning Tree	LED	Per unit: Power 1 (Green), Power 2
	IEEE802.3ad Link Aggregation Control		(Green),
	Protocol (LACP)		FAULT (Red)
	IEEE802.1AB Link Layer Discovery		Ethernet port: Link/Activity (Green),
	Protocol (LLDP)		Speed (Green);
	IEEE802.1X User Authentication (Radius)		Mini-GBIC: Link/Activity (Green)
	IEEE802.1p Class of Service		R.M. indicator (Green)
	IEEE802.1Q VLAN Tag	DI/DO	2 Digital Input (DI) :
Switch Architecture	Back-plane (Switching Fabric): 9.6Gbps		Level 0: -30~2V / Level 1: 10~30V
Transfer Rate	14,880pps for Ethernet port		Max. input current:8mA
	148,800pps for Fast Ethernet port		2 Digital Output(DO): Open collector to 40
	1,488,000pps for Gigabit Fiber Ethernet		VDC, 200mA
	port	Operating Humidity	5% ~ 95% (Non-condensing)
Mac Address	16K MAC address table	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard
Jumbo frame	10KB		model)
Connectors	10/100TX: 8 x ports RJ-45 with Auto		-40°C~75°C / -40°F~167°F(-E model)
	MDI/MDI-X function	Storage Temperature	-40°C~85°C / -40°F~185°F
	4 x 1000 SFP socket with DDM	Power Supply	Dual 9.5~60VDC (Standard model)
	RS-232 connector: RJ-45 type		Single 90~305VAC/120~430VDC (HV
	Power & Relay connector: 1 x 6-pole		model)
	terminal block	Power Consumption	10W
	DIDO : 1 x 6-pole terminal block	Case Dimension	Metal case. IP-30,
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/		74 (W) x 105 (D) x 152 (H) mm (Standard
	5E/ 6 cable		model)
	EIA/TIA-568 100-ohm (100m)		74 (W) x 135 (D) x 152 (H) mm (HV
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/		model)
	6 cable	Weight	900 g
	EIA/TIA-568 100-ohm (100m)	Installation	DIN Rail and Wall Mount** Design
Optical Cable	1.25Gbps:	EMI & EMS	FCC Class A,
	Multi mode: 0 to 550 m, 850 nm (50/125		CE EN55032 , CE EN55011,
	μm); 0 to 2 km, 1310 nm (50/125 μm)		



	CE EN61000-6-2, CE EN61000-6-4,		
	CE EN61000-4-2, CE EN61000-4-3,		
	CE EN61000-4-4, CE EN61000-4-5,		
	CE EN61000-4-6, CE EN61000-4-8		
	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)		
Safety	IEC/BS EN IEC 62368-1 2020/A11:2020		
MTBF	938,222 hours		
Warranty	5 years		
Software Spec	ification		
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		
110 G.6032			
	protection in less than 20ms for self-heal		
	recovery (basic mode)		
	Support various ring/chain topologies		
	Includes train ring, auto ring, basic single		
	ring, enhanced ring, multiple-VLAN ring		
	Enhanced G.8032 ring configuration with		
	ease. Protect multicast & unicast data.		
User friendly UI	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		
Port Trunk with LACP	■ Complete CLI for professional setting		
Port Trunk with LACP	■ Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups		
Port Trunk with LACP	■ Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise		
LLDP	Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN		
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CDP	Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping		
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CDP Environmental Monitoring** VLAN MLD Snooping Spanning Tree Quality of Service	■ Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status (-M model) 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 Support IPv6 Multicast stream Supports IEEE802.1d Spanning Tree and IEEE802.1s Multiple Spanning Tree with 16 MSTI The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4		
CDP Environmental Monitoring** VLAN MLD Snooping Spanning Tree	Complete CLI for professional setting LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN Cisco Discovery Protocol for topology mapping System status for input voltage, current and ambient temperature to be shown in GUI and sent alerting if any abnormal status (-M model) 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 Support IPv6 Multicast stream Supports IEEE802.1d Spanning Tree and IEEE802.1s Multiple Spanning Tree with 16 MSTI The quality of service determined by port / CoS / ToS / VLAN / 61375-3-4 Support IEEE802.1p class of service, per		
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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		
IGMP	Support IGMP snooping v1,v2,v3; 1024		
	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.		
Flow Control	Supports Flow Control for Full-duplex and		
System Log	Back Pressure for Half-duplex Supports System log record and remote		
eyetem Log	system log server		
Relay Alarm	Provides one relay output for port		
	breakdown, power fail and alarm.		
	Alarm Relay current carry ability: 1A @ DC24V		
Protection	■ Miss-wiring avoidance		
	■ Node failure protection		
	■ Loop protection		
SNMP Trap	Up to 10 trap stations; trap types including:		
	Device cold start		
	Authorization failure Port link up/link down		
	Port link up/link downDI/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		
Mac based DHCP	Snooping; basic IPv6 DHCP server Assign IP address by Mac		
Server	Assign in address by Wat		
DNS	Provide DNS client feature		
SNTP	Supports SNTP to synchronize system		
Diagnostic	clock in Internet Support Ping and DDM information		
Diagnostic Firmware Update	Support Ping and DDM information Supports TFTP firmware update, TFTP		
- I illiwale opuale	Cupports II II IIIIIwale upuate, II IF		



	backup and restore; HTTP firmware upgrade
Configuration upload and download	Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to

	factory default.
Auto Provision	To verify switch firmware with the latest or certain version

- *Future release
- **Optional
- ***Optional DDM SFP required

ORDERING INFORMATION

■ IES-3408GSFP.......P/N: 8350-530

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Dual 9.5~60VDC

■ IES-3408GSFP-E......P/N: 8350-531

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Dual 9.5~60VDC

■ IES-3408GSFP-M......P/N: 8350-532

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch w/ environmental monitoring; -20°C to 60°C; Dual 9.5~60VDC

IES-3408GSFP-M-E.....P/N: 8350-533

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch w/ environmental monitoring; -40°C to 75°C; Dual 9.5~60VDC

■ IES-3408GSFP-HV......P/N: 8350-528

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Single 90~305VAC/120~430VDC

■ IES-3408GSFP-HV-E......P/N: 8350-529

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Single 90~305VAC/120~430VDC

IES-3408GSFP-HV-M.....P/N: 8350-5281

4 1000 SFP + 8 10/100TX L2+ Industrial Managed Ethernet Switch w/ environmental monitoring; -20°C to 60°C; Single 90~305VAC/120~430VDC

IES-3408GSFP-HV-M-E.....P/N: 8350-5291

4 1000 SFP + 8 10/100TX L2 +Industrial Managed Ethernet Switch w/ environmental monitoring; -40°C to 75°C; Single 90~305VAC/120~430VDC

OPTIONAL ACCESSORIES

DIN Rail Power

■ 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)

8330-162-V1	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	8330-196-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)
8330-163-V1	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	8330-188-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)
8330-165-V1	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	8330-189-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
8340-0591-V1	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	8330-186-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)
8330-166-V1	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	8330-187-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8330-169-V1	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	8330-180-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-167-V1	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	8330-182-V1	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8330-170-V1	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	8330-181-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
8330-168-V1	MINI GBIC 10/100/1000T (100m) Transceiver	8330-183-V1	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
8330-197-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	8330-184-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
8330-198-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	8330-185-V1	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
8330-195-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	All SFP# ended	I 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 Ethernet switches

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

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