

IES-3416DSFP

16 10/100TX + 4 Dual Speed 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 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
- Dual input voltage 9~60VDC (Standard model); Single isolated input power 90~305VAC/120~430VDC (HV model)
- Optional Environmental Monitoring for temp., voltage and current. (-M model)
- *E-marking certificate for vehicle application (24V model)*
- N-key configurator** for upgrading, auto back up /editable restoration without computer



OVERVIEW

Lantech IES-3416DSFP is a high performance L2+ (Gigabit uplink) Ethernet switch with 16 10/100TX + 4 100/1000M 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 also supported and 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, Node failure protection, Loop protection

The IES-3416DSFP 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-3416DSFP 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 needs 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 server.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IES-3416DSFP 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-3416DSFP 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; Optional N-key auto backup, Exported text file

The configuration file of Lantech IES-3416DSFP can be exported and edited with word processor for the other switches configuration with ease.

The optional N-key configurator offers firmware upgrade, auto backup/ editable configuration restore without computer by adjusting the DIP switch.

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-3416DSFP 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, email alert when abnormal.

Wide range dual DC/24V/HV powered input with galvanic isolation; High ESD protection

The Lantech IES-3416DSFP is designed with dual power supply at 9~60VDC (Standard model), 9~36VDC (24V model) or single 90~305VAC/120~430VDC (HV model). The IES-3416DSFP 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.

E-marking certificate

The E-marking certificate (24V model) makes it the most suitable PoE switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 24V but has demand of IP surveillance or VoIP applications.

Industrial hardened design for extended temperature operation

Lantech IES-3416DSFP 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° .

FEATURES & BENEFITS 16 10/100TX + 4 100/1000M SFP (Total 20 Ports

- Ethernet Switch)
- Dual input from 9V~60VDC (Standard model); Dual input from 9V~36VDC (24V model); HV single input from 90~305VAC/120~430VDC (HV model)
- Back-plane (Switching Fabric): 11.2Gbps
- 16K MAC address table
- E-marking certificate for vehicle application (24V model)
- 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
 ring
 - Cover multicast and data packets 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 service can be supported.
- Mac based DHCP server to assign IP address
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Miss-wiring avoidance
- 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+**

Standard/24V model

Login Security: IEEE802.1X/RADIUS

DIMENSIONS (unit=mm)

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
- 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

N-key** for mass configuration auto-backup, editable restoration, and auto firmware upgrade

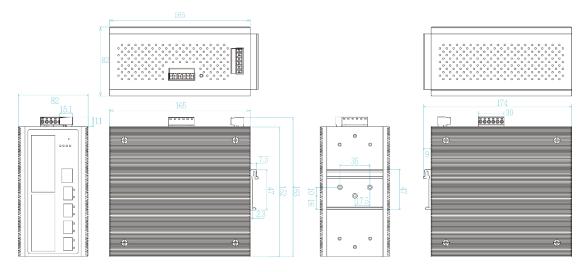
- IP30 metal housing with DIN rail and Wall-mount** design
- Auto Provision to verify switch firmware with the latest or certain version

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HV model



SPECIFICATION

Hardware Spec	cification		EIA/TIA-568 100-ohm (100m)
Standards	IEEE802.3 10Base-T Ethernet	Optical Cable	1.25Gbps:
	IEEE802.3u 100Base-TX		Multi-mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm)
	IEEE802.3z Gigabit fiber		Single mode: 0 to 10 km/ 30 km/ 40 km,
	IEEE802.3x Flow Control and Back		1310 nm (9/125 μm); 0 to 50 km/ 60 km/
	Pressure		80km/ 120 km, 1550 nm (9/125 μm) 125Mbps:
	IEEE802.3ad Port trunk with LACP		Multi-mode: 0 to 2 km/ 5 km, 1310 nm
	IEEE802.1d Spanning Tree		(62.5/125 μm) Single-mode: 0 to 30 km, 1310 nm
	IEEE802.1w Rapid Spanning Tree		(62.5/125 μm)
	IEEE802.1s Multiple Spanning Tree		WDM 1.25Gbps:
	IEEE802.3ad Link Aggregation Control		Single-mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 µm); 0 to 80 km,
	Protocol (LACP)		1490 nm (9/125 μm); 0 to 10 km/ 20 km/
	IEEE802.1AB Link Layer Discovery		40 km/ 60 km/ 80 km, 1550 nm (9/125
	Protocol (LLDP)		μm) WDM 125Mbps:
	IEEE802.1X User Authentication (Radius)		Single-mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 µm); 0 to 20 km/
	IEEE802.1p Class of Service		40 km/ 60 km/ 80 km, 1550 nm (9/125
	IEEE802.1Q VLAN Tag		μm)
Switch Architecture	Back-plane (Switching Fabric): 11.2Gbps	LED	Per unit: Power 1 (Green),
Transfer Rate	14,880pps for Ethernet port		Power 2 (Green), FAULT (Red)
	148,800pps for Fast Ethernet port		Ethernet port: Link/Activity (Green),
	1,488,000pps for Gigabit Fiber Ethernet		Speed (Green);
	port		Mini-GBIC: Link/Activity (Green)
Packet Buffer	8Mbits		R.M. indicator (Green)
Mac Address	16K MAC address table	DI/DO	2 Digital Input (DI) :
Jumbo frame	10KB		Level 0: -30~2V / Level 1: 10~30V Max. input current:8mA
Connectors	10/100TX: 16 x ports RJ-45 with Auto		2 Digital Output(DO): Open collector to 40
	MDI/MDI-X function		VDC, 200mA
	Mini-GBIC: 4 x 100/1000 SFP socket with	Operating Humi	
	DDM	Operating Temp	
	RS-232 connector: RJ-45 type	operating temp	model)
	Power connector: 1 x 6-pole terminal		-40°C~75°C / -40°F~167°F(-E model)
	block	Storage Temper	
	DIDO : 1 x 6-pole terminal block	Power Supply	Standard model: Dual 9~60VDC
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/		24V model: Dual 9~36VDC
	5E/ 6 cable		HV model: Single
	EIA/TIA-568 100-ohm (100m)		90~305VAC/120~430VDC
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/	Power Consump	
	6 cable		

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OS1 Platform Industrial Managed Ethernet Switches



	industrial Managed Ethernet Sw	Iteries
Case Dimension	Metal case. IP-30,	Po
	Standard/24V model: 74 (W) x 135 (D) x	
	152 (H) mm	Ne
	HV model: 74 (W) x 165 (D) x 152 (H) mm	
Weight	1000 g	
Installation	DIN Rail and Wall Mount** Design	
EMI & EMS	FCC Class A,	
	CE EN55032, CE EN55024,	
	CE EN61000-4-2, CE EN61000-4-3,	
	CE EN61000-4-4, CE EN61000-4-5,	
	CE EN61000-4-6, CE EN61000-4-8,	
	CE EN61000-6-2	
Vehicle certificate	E13 marking (24V model)	
MTBF	615,724 hours	
Warranty	5 years	IGI
Software Speci		
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI	
SNMP MIB	MIB	Sta
	MIBII	
	SNMP MIB	
	Bridge MIB IF MIB	
	RMON MIB	Ba
	Private MIB	Da
ITU G.8032	Support ITU G.8032 v2/2012 for Ring	
	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		
User menaly Of	 Auto topology drawing Tanalary dama 	
	Topology demoAuto configuration for	
	G.8032(auto mode) for single	
		Flo
	ring ■ Complete CLI for professional	FIC
	setting	
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups	Sy
LLDP	Supports LLDP to allow switch to advise	
	its identification and capability on the LAN	Pro
CDP	Cisco Discovery Protocol for topology	
ODF		SN
Environmental	mapping System status for input voltage, current	
Monitoring**	and ambient temperature to be shown in	
	GUI and sent alerting if any abnormal status (-M model).	
MLD Snooping	Support IPv6 Multicast stream	
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	DH
	Subnet based VLAN	
Openning Tree		
Spanning Tree	Supports IEEE802.1d Spanning Tree and	
	IEEE802.1w Rapid Spanning Tree,	
	IEEE802.1s Multiple Spanning Tree	Ma
Quality of Service	The quality of service determined by port /	Se
	CoS / ToS / VLAN / 61375-3-4	DN
Class of Service	Support IEEE802.1p class of service, per	SN
	port provides 8 priority queues	
Login Security	Supports IEEE802.1X	Dia
	Authentication/RADIUS	Fir

Dest Misses	Current 2 minuting types: "DV_TV and	
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 Back Pressure for Half-duplex	
System Log	Supports System log record and remote	
	system log server	
Protection	Miss-wiring avoidance	
	Node failure protection	
SNMP Trap	 Loop protection 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**(-	
DHCP	M model) Provide DHCP Client/ DHCP	
	Server/DHCP Option 82/Port based	
	DHCP; DHCP Option 66; DHCP	
	Snooping; Basic IPv6 DHCP service can	
	be supported	
Mac based DHCP Server	Assign IP address by Mac	
DNS	Provide DNS client feature	
SNTP	Supports SNTP to synchronize system	
Diagnostic	clock in Internet Support Ping and DDM information	
Firmware Update	Supports TFTP firmware update, TFTP	

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OS1 Platform **Industrial Managed Ethernet Switches**



N-Key Configurator**	
Configuration	
upload and download	

backup and restore; HTTP firmware upgrade

RJ45 dongle for firmware upgrade, auto / editable configuration backup/restoration Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to

Auto	Provision	

factory default.

To verify switch firmware with the latest or certain version *Future release

Optional *Optional DDM SFP required

ORDERING INFORMATION

- IES-3416DSFP......P/N: 8350-657
- 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, 9~60VDC; -20°C to 60°C IES-3416DSFP-E.....P/N: 8350-658
- 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, 9~60VDC; -40°C to 75°C IES-3416DSFP-M.....P/N: 8350-659 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; 9~60VDC; -20°C to
- 60°C IES-3416DSFP-M-E.....P/N: 8350-654

16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; 9~60VDC; -40°C to 75°C

- IES-3416DSFP-24V.....P/N: 8350-652 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, 9~36VDC; -20°C to 60°C
- IES-3416DSFP-24V-E.....P/N: 8350-6521 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, 9~36VDC; -40°C to 75°C
- IES-3416DSFP-24V-M.....P/N: 8350-6522 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; 9~36VDC; -20°C to 60°C
- IES-3416DSFP-24V-M-E.....P/N: 8350-6523 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; 9~36VDC; -40°C to 75°C
- IES-3416DSFP-HV.....P/N: 8350-6571 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, Single 90~305VAC/120~430VDC; -20°C to 60°C
- IES-3416DSFP-HV-E.....P/N: 8350-6572
- 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch, Single 90~305VAC/120~430VDC; -40°C to 75°C IES-3416DSFP-M-HV.....P/N: 8350-6573
- 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; Single 90~305VAC/120~430VDC; -20°C to 60°C
- IES-3416DSFP-M-HV-E.....P/N: 8350-6574 16 10/100TX + 4 Dual Speed SFP L2+ Industrial Managed Ethernet Switch w/environmental monitoring; Single 90~305VAC/120~430VDC; -40°C to 75°C
- N-key Configurator.....P/N: 8850-100 RJ45 connector dongle for firmware upgrade, auto/editable configuration backup and restoration; -20°C to 60°

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 ;

Mini GBIC (SFP)

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

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

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B330-071-V1 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver 8330-072-V1 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver 8330-069-V1 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver B330-068-V1 8330-080-V1

125Mbps BiDi SFP 20KM (WDM 1550) Transceiver 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver 8330-082-V1 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver

8330-081-V1 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver B330-083-V1 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver 8330-084-V1 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver Dual Speed SFP 100M/1000M-LX 10KM Transceiver 8330-085-V1 8330-191-V1

All SFP# ended with D are with DDM function

Wall Mount Bracket

MBAK19003 MBAK19004 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 19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Ethernet Switch

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