

IPGS-5488MGSFP-8

8 10/100/1000T PoE af/at + 8 100M/1G SFP + 4 1G/2.5G SFP

w/ L2+ Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring &

LTDP**; 12V/48V input models

- Support IEEE802.3at/af up to 30W per port; PoE budget 240W(48V) or 120W (12V model at 24V input)
- PoE management incl. Detection and Scheduling
- 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 8/16**MSTI /RSTP ; support MRP ring**
- LTDP** (Link Train Discovery Protocol) to auto-assign IP as well as inherit the configuration in replaced Ethernet switCh
- 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, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN**, SSH/SSL, HTTPS, INGRESS/EGRESS** ACL L2/L3, TACACS+, QinQ**, SMS**
- Protocol based VLAN**; IPv4/IPv6 Subnet based VLAN**
- Environmental Monitoring for temp, voltage & current**
- USB port to backup, restore the configuration file and upgrade
- Optional InstaView** for centralized backup, editing the configuration file and upgrade firmware
- Wide range operation temperature (-E model):-40~75C/-40~167F; Fan-less design



OVERVIEW

Lantech IPGS-5488MGSFP is a high performance L2+ (All Gigabit) Ethernet switch with 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G SFP auto-sensing cage w/8 PoE 802.3 af/at injectors 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. It also supports train ring**, enhanced mode with easy configuration, comprehensive QoS, QoS by VLAN**, advanced security including INGRESS/EGRESS** ACL L2/L3, TACACS+, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ** which are important features required in large network. The Cisco Discovery Protocol (CDP) and LLDP are supported for Ciscoworks to detect the switch info and show on L2 map topology. The enhanced platform allows quick booting up time under 50 seconds.

PoE at/af up to 8 10/100TX Ports with detection and scheduling

Compliant with 802.3af/at standard, the Lantech IPGS-5488MGSFP-8 is able to feed each PoE port up to 30 watt. Lantech IPGS-5488MGSFP-8 supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hanged 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.

Innovative LTDP** (Link Train Discovery Protocol) to assign proper IP address as well as inherit configuration for replaced Ethernet switch

With port-based DHCP server, LTDP** allows Lantech Ethernet switch series in single ring to discover the current IP addresses and to assign the same IP address and configuration. Furthermore, LTDP** can inherit the same configuration to new replaced Ethernet switch.

Miss-wiring avoidance, Loop protection, Repowered auto ring** restore

The IPGS-5488MGSFP-8 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 IPGS-5488MGSFP-8 is able to alert with the LED indicator and disable ring automatically. Repowered auto ring** restore function (node failure protection) ensures the Ethernet 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 Ethernet switch is inserted in a closed loop connection.

DHCP option 82 & Port based, Mac based DHCP, Option66, 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. 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. Optional IPv6 address resolution for DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-5488MGSFP-8 much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8/16** MSTI MSTP; Optional MRP ring**

Lantech IPGS-5488MGSFP-8 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 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 8/16** MSTI.

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

QoS by VLAN** for legacy device

QoS by VLAN can allow Ethernet 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 QinQ** and GVRP supported

It supports the QinQ**, QoS QinQ**, GVRP for large VLAN segmentation.

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

Editable configuration file; USB port for upload/download configuration; InstaView** for mass deployment

The configuration file of Lantech IPGS-5488MGSFP-8 can be exported and edited with word processor for the other Ethernet switches configuration with ease.

The built-in watchdog design can automatically reboot the switch when CPU is found dead.

The USB port can upload/download the configuration from/to USB dongle.

With optional InstaView, the configuration files can be mass backup, mass-editable deployed and auto upgrading firmware in batch make maintenance easy.

2DI/2DO for relay contact and event alerting by email & traps

In case of event, the IPGS-5488MGSFP-8 is able to send an email & SMS** text message 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.

Environmental monitoring for Ethernet switch inside information

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

Dual power 12V or 48V input; High PoE budget

The Lantech IPGS-5488MGSFP-8 is designed with dual power supply at 12VDC (12V model) for 9.5V~56VDC input and can provide 80W (12V input) or 120W (24V input) PoE budget. The 48V model can support dual power 44VDC~56VDC input and can have 240W PoE budget.

Industrial hardened design with high EFT and ESD protection

Lantech IPGS-5488MGSFP-8 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. Featured with relay contact alarm function, the IPGS-5488MGSFP-8 is able to connect with alarm system in case of power failure or port disconnection. The IPGS-5488MGSFP-8 also provides $\pm 2000V$ EFT and $\pm 6000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet.

It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to $75^{\circ}C$

FEATURES & BENEFITS

- 8 10/100/1000T + 8 100M/1G SFP+ 4 1G/2.5G SFP auto-sensing cage w/8 PoE 802.3af/at injectors L2+ industrial managed Ethernet switch (Total 20 Ports Switch)
- 12V dual input from 9.5V~56VDC(12V model); 48V

dual input from 44V~56VDC (48V model)

- Back-plane (Switching Fabric): 52Gbps
- 16K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB

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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 for single ring
 - Support various ring/chain topologies, including train ring**, enhanced ring, basic ring, auto ring** & multiple VLAN ring**
 - Enhanced G.8032 ring configuration with ease
 Auto ring** configuration(auto mode**) for single
 - ring
 Cover multicast and data packets protection
- LTDP** (Link Train Discovery Protocol) with Port based DHCP can assign the same IP address and configuration to replaced switch in a single ring
- Provides EFT protection ±2000 VDC for power line
- Supports ±6000 VDC 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
- QoS by VLAN** to prioritize all devices in the network
- IEEE 802.1d STP*, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 8/16** MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ**, QoS QinQ**
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ LantechTM InstaView**
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server Port based DHCP server; DHCP Option 66; IPv6 address resolution for DHCP server**
- Mac based DHCP** server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress** rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance

LED indicator

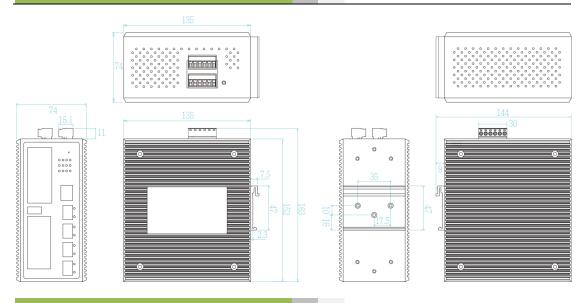
- Repowered auto ring** restore
 - Ensure the Ethernet switches in a ring to survive

after power breakout is back

- The status can be shown in NMS when each Ethernet switch is back
- TFTP/SFTP**/HTTP firmware upgrade; Lantech[™] InstaView** for multiple upgrade
- System Event Log, SMTP Email alert, SMS** mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/INGRESS/EGRESS** ACL L2/L3
 - Port Security: MAC address entries/Filter/static
 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
- Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multi media
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch when CPU is found dead
- Environmental monitoring for system input voltage,
 PoE load, current and ambient temperature
- Supports DIDO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration file by USB dongle
 - InstaView** for centralized configuration
 - deployment, backup & upgrade
- IP30 metal housing with DIN rail and Wall-mount** design



DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Spec	cification				
Standards	IEEE802.3 10Base-T Ethernet				
	IEEE802.3u 100Base-TX				
	IEEE802.3ab 1000Base-T				
	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	LE			
	IEEE802.3ad Link Aggregation Control				
	Protocol (LACP)				
	IEEE802.1AB Link Layer Discovery Protocol				
	IEEE802.1X User Authentication (Radius)	DI			
	IEEE802.1p Class of Service				
	IEEE802.1Q VLAN Tag; Q-Bridge MIB**				
	IEEE802.3at/af Power over Ethernet				
Switch Architecture	Back-plane (Switching Fabric): 52Gbps				
Mac Address	16K MAC address table	Or			
Jumbo frame	10KB	Or			
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto	U.P.			
	MDI/MDI-X function	Ste			
	Mini-GBIC: 8x 100M/1G SFP + 4 x 1G/2.5G	Po			
	SFP auto-sensing cage with DDMI	FU			
	RS-232 connector: RJ-45 type				
	USB x 1	Po			
	Power & Relay connector: 1 x 6-pole terminal				
	block				
	DIDO : 1 x 6-pole terminal block	Po			
Network Cable	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)	Pc			
	1000Base-T: 4-pair UTP/STP Cat5E/6 cable;	Ca			
	10GBaseT:4-pair STP Cat6/6A/7 cable				
Optical Cable	·	W			
Oplical Cable	1Gbps:	Ins			
	Multi mode: 0 to 550 m, 850 nm (50/125 µm);	EN			
	0 to 2 km, 1310 nm (50/125 μm)	En			
	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)				
	2.5Gbps				
	· · · ·	St			
	Multi mode: 0 to 300 m, 850 nm (50/125 µm);				
	Single mode: 0 to 2 km/ 15 km/ 40 km, 1310				
	nm (9/125 µm); 0 to 40 km/ 80 km/ 100km,	M			
	1550 nm (9/125 μm)				
	WDM 1Gbps:	W			

	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 2.5Gbps
	Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km,
	1310 /1550nm (9/125 μm); 0 to 80 km,
	1490/1550 nm (9/125 μm)
LED	Per unit: Power 1 (Green), Power 2 (Green),
	FAULT (Red); RM(Green)
	Ethernet port: Link/Activity (Green), Speed
	(Green); PoE: Link/Act (Green);
	Mini-GBIC: Link/Activity (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 Supply	Dual 9.5~56VDC (12V model);
	Dual 44~56VDC (48V model)
PoE Budget	12V model:
	24V: 120W / 12V: 80W
	48V model: 240W
PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af
	End-point, Alternative A mode.
	Positive (VCC+): RJ-45 pin 1,2.
	Negative (VCC-): RJ-45 pin 3,6.
Power Consumption	25W
Case Dimension	Metal case. IP-30,
	74 (W) x 135 (D) x 152 (H) mm
Weight	900 g
Installation EMI & EMS	DIN Rail and Wall Mount** Design
	FCC Class A, CE EN55022 Class A, CE EN55024, CE
	CE EN55022 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE
	EN61000-4-4, CE EN61000-4-5 ED3, CE
	EN61000-4-6, CE N61000-4-8, EN61000-4-11
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27
	(Shock),
	IEC60068-2-6 (Vibration)
MTBF	591,245 (Hrs)
Morrontu	(standards: IEC 62830)
Warranty	5 years

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Industrial PoE Gigabit Managed Ethernet Switches



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Software Spe	cification		802.1X access control for port based and
Management	SNMP v1 v2c, v3/Web/Telnet/CLI		MAC based authentication/static MAC-Port
SNMP MIB	RFC 1215 Traps MIB**,		binding
	RFC 1213 MIBII		Ingress/Egress** ACL L2/L3
	RFC 1158 MIBII		SSL/SSH for Management
	RFC 1157 SNMP MIB,		HTTPS for secure access to the web interface
	RFC 1493 Bridge MIB**		TACACS+ for Authentication
	RFC 1573 IF MIB	IGMP	
	RFC 2674 VLAN MIB**,		Support IGMP snooping v1,v2,v3; Supports IGMP static route; 256 multicast groups;
	Partial RFC 1757 RMON,		IGMP router port ; IGMP query; GMRP
	RFC 2674 Q-Bridge MIB**; Bridge MIB,	Static multicast	Static multicast forwarding forward reversed
			IGMP flow with multicast packets binding with
	RSTP MIB** Private MIB	forwarding	ports for IP surveillance application
ITU G.8032		Bandwidth Control	Support ingress packet filter and egress
110 0.0032	Support ITU G.8032 v2/2012 for Ring	Bandwidth Control	packet limit.
	protection in less than 20ms for self-heal		The egress** rate control supports all of
	recovery (single ring enhanced mode)		packet type.
	Support various ring/chain topologies		Ingress filter packet type combination rules
	Includes train ring**, auto ring**, basic single		are Broadcast/Multicast/Flooded Unicast
	ring, enhanced ring, multiple-VLAN ring**		packet, Broadcast/Multicast packet,
	Enhanced G.8032 ring configuration with		Broadcast packet only and all types of packet.
	о о		The packet filter rate can be set an accurate
	ease		value through the pull-down menu for the
	Cover multicast & data packets protection		ingress packet filter and the egress packet limit.
LTDP**(optional)	Link Train Discovery Protocol with Port based	Flow Control	Supports Flow Control for Full-duplex and
	DHCP server to assign the same IP address		Back Pressure for Half-duplex
	and to keep the config file when any switch changes	System Log	Supports System log record and remote
User friendly UI	 Auto topology drawing 		system log server
User menuly Of	 Topology demo 	SMTP/Text SMS**	Supports SMTP Server and 8 e-mail accounts
	 Auto configuration for G.8032(auto 		for receiving event alert; can send SMS** text
	mode**) for single ring		alert via mobile
	DDM threshold monitoring with dB	Relay Alarm	Provides one relay output for port breakdown,
	values***		power fail and alarm.
	 Complete CLI for professional setting 		Alarm Relay current carry ability: 1A @ DC24V
Port Trunk with LACP	LACP Port Trunk: 10 Trunk groups	Protection	 Miss-wiring avoidance
LLDP	Supports LLDP to allow switch to advise its		 Repowered auto ring** restore
	identification and capability on the LAN		 Loop protection
CDP	Cisco Discovery Protocol for topology	SNMP Trap	Up to 10 trap stations; trap types including:
<u> </u>	mapping		Device cold start
Environmental	System status for input voltage, current and		Authorization failure
Monitoring	ambient temperature to be shown in GUI and sent alerting if any abnormal status		 Port link up/link down
VLAN	Port Based VLAN		DI/DO open/close
VLAN	IEEE 802.1Q Tag VLAN (256 entries)/ VLAN		 Typology change(ITU ring)
	ID (Up to 4K, VLAN ID can be assigned from 1		Power failure
	to 4096)		 Environmental abnormal**
	GVRP, QinQ**, QoS QinQ**, Protocol based	DHCP	Provide DHCP Client/ DHCP Server/DHCP
	VLAN** ; IPv4/IPv6 Subnet based VLAN**		Option 82/Port based or VLAN based DHCP
IPv6/4	Present		distribution (DHCP relay agent); DHCP Option
Spanning Tree	Supports IEEE802.1d Spanning Tree** and		66; IPv6 address resolution for DHCP server**
	IEEE802.1w Rapid Spanning Tree,	Mac based DHCP**	Assign IP address by Mac that can include
	IEEE802.1s Multiple Spanning Tree 8/16**	Server	dumb switch in DHCP network
	MSTI	DNS	Provide DNS client feature and support
Quality of Service	The quality of service determined by IPv4 Type of service, IPv4 Differentiated Services		Primary and Secondary DNS server.
	Code Points - DSCP	SNTP	Supports SNTP to synchronize system clock
Class of Service			in Internet
	Support IEEE802.1p class of service, per port	Firmware Update	Supports TFTP/SFTP** firmware update,
	provides 8 priority queues		TFTP backup and restore; HTTP firmware
QoS by VLAN**	Tagged QoS by VLAN** for all devices in the		upgrade; Lantech [™] InstaView** for multiple
	network		upgrade
IP Security	Supports 10 IP addresses that have	Configuration	Supports text configuration file for system
	permission to access the switch management	upload and download	quick installation;
	and to prevent unauthorized intruder.		Support factory reset button to restore all
Login Security	Supports IEEE802.1X Authentication/RADIUS		settings back to factory default; USB auto
Port Mirror	Support 3 mirroring types: "RX, TX and Both	Duel Imere Firmere *	restore/backup configuration file
	packet"	Dual Image Firmware*	Support dual image firmware function
Network Security	Support 10 IP addresses that have permission		*Future release **Optional
	to access the switch management and to		***Optional DDM SFP required
	to access the switch management and to		
	prevent unauthorized intruder.		Optional DDM SI F required



ORDERING INFOMATION

- IPGS-5488MGSFP-48V......P/N: 8350-855
 8 10/100/1000T PoE at/af up to 30W + 8 100M/1G SFP + 4 1G/2.5G SFP L2+ Industrial PoE Managed Ethernet Switch; -20°C to 60°C; Environmental Monitoring; dual 44V~56V input, PoE budget 240W
- IPGS-5488MGSFP-48V-E......P/N: 8350-8551
 8 10/100/1000T PoE at/af up to 30W + 8 100M/1G SFP + 4 1G/2.5G SFP L2+ Industrial PoE Managed Ethernet Switch; -40°C to 75°C; Environmental Monitoring; dual 44V~56V input, PoE budget 240W
- IPGS-5488MGSFP-12V......P/N: 8350-856
 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G SFP L2+ Industrial PoE Managed Ethernet Switch; -20°C to 60°C; Environmental Monitoring; dual 9.5V~56V input, PoE budget 80W at 12V; 120W at 24V
- IPGS-5488MGSFP-12V-E......P/N: 8350-8561
 8 10/100/1000T + 8 100W1G SFP + 4 1G/2.5G SFP L2+ Industrial PoE Managed Ethernet Switch; -40°C to 75°C; Environmental Monitoring; dual 9.5V~56V input, PoE budget 80W at 12V; 120W at 24V

OPTIONAL ACCESSORIES

DIN Rail Power

NDR-240-48	240W (48V 5A) Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection;					
	RoHS2 ; Operating Temp20°C-70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)					
NDR-120-48	120W (48V 2.5A) Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection;					
	RoHS2 ; Operating Temp20°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)						
8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550)					

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All SFP ended with D are with Diagnostic function

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