IPGS-5408DFT

2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T w/8 PoE at/af

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

- *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***
- *LTDP** (Link Train Discovery Protocol) to auto-assign IP as well as inherit the configuration in replaced switch*
- *Support IEEE802.3at/af up to 30W per port*
- *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**.*
- *Optional Environmental Monitoring for temp, voltage and current (-M model)*
- *Wide range dual DC input from ±44V~57V*
- *Optional InstaView** for centralized backup, editing the configuration file and upgrade firmware*
- *USB port to backup, restore the configuration file and upgrade firmware**

FCC CE RoHS2 PoE AT 30W ITU G.8032 Environmental Monitoring DDM

OVERVIEW

Lantech IPGS-5408DFT is a high performance L2+ (All Gigabit) industrial Ethernet switch with 8 10/100/1000T PoE at/af + 2 10/100/1000T + 2 Dual Speed 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 mode with easy configuration. The 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** 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.

Innovative LTDP** (Link Train Discovery Protocol) to assign proper IP address as well as inherit configuration for replaced switch
With port-based DHCP server, LTDP** allows Lantech EN50155 switch series in single ring discover the current IP addresses and to assign the same IP address and configuration. Furthermore, LTDP** can inherit the same configuration to new replaced switch for zero-touch maintenance.

Up to 8 PoE at/af ports w/advanced PoE management
Compliant with 802.3af/at standard, the Lantech IPGS-5408DFT is able to feed each PoE port up to 30 Watt, total PoE budget 240W. Lantech IPGS-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 ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, Repowered auto ring restore, Loop protection
The IPGS-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 IPGS-5408DFT is able to alert with the LED indicator and disable ring automatically. Repowered auto ring restore function (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.

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

Lantech IPGS-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 each spanning tree for each VLAN for redundant links with 16 MSTI.

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

DHCP option 82 & Port based, Mac based DHCP, Option66, IPv6 DHCP server**

DHCP option 82 and Port based DHCP function can offer the same IP address on port base or VLAN base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The built-in DHCP Option 82 server offers the convenience of policy setting on the switch. Mac based DHCP server function assigns an IP address according to its MAC address to include dumb switches in DHCP network. DHCP option 66 is also supported. Optional IPv6 address resolution for DHCP server can be supported.

QoS by VLAN for legacy devices

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 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.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-5408DFT much easier to get hands-on. The IPGS-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.

Editable configuration file; Factory reset button; InstaView** for mass deployment

The configuration file of Lantech IPGS-5408DFT 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.

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

USB port for configuration upload & download

The built-in USB port can have configuration upload & download by USB dongle.

Event log & message; 2 DI / 2DO

In case of event, the IPGS-5408DFT 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.

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

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

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

The Lantech IPGS-5408DFT is designed with wide range dual power input from ±44V~57VDC. Featured with relay contact alarm function, the IPGS-5408DFT is able to connect with alarm system in case of power failure or port disconnection. The IPGS-5408DFT also provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IPGS-5408DFT features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, mining , process control and railway(EN50121-4*). 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

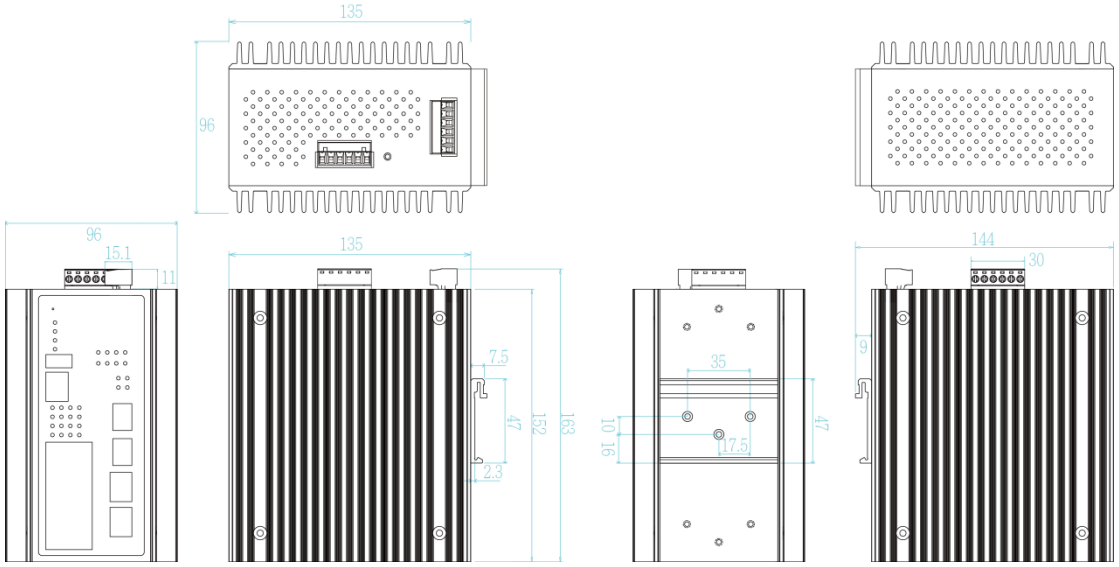
FEATURES & BENEFITS

- **8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP w/8 PoE 802.3af/at Injectors (Total 12 Ports Switch)**
- **Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W for active mode operation. Max. PoE budget: 240W**
- **PoE management including PoE detection and**

scheduling for PD (power devices)

- **Back-plane (Switching Fabric): 24Gbps**
- **Packet Buffer: 2Mbit**
- **Store-and-Forward Switching Architecture**
- **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 recovery < 20ms in 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*
  - *Covers multi-cast and data packets*
- **LTDP** (Link Train Discovery Protocol) with Port based DHCP can assign the same IP address and configuration to switch in single ring. It can also keep the config file when switches being swapped**
- **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**
- **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 QinQ****
- **Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/Lantech™ 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 switches in a ring to survive after power breakout is back*
  - *The status can be shown in NMS when each switch is back*
- **TFTP/SFTP**/HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade**
- **Configuration backup and restoration**
  - *Supports text configuration file for system quick installation*
  - *USB port for upload / download configuration by USB dongle*
  - *InstaView** for centralized configuration deployment, backup & 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/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 multimedia; GMRP****
- **Factory reset button to restore setting to factory default**
- **Watchdog design to auto reboot switch CPU is found dead**
- **Supports DIDO (2 Digital Input / 2 Digital Output)**
- **Wide range dual input power from ±44V to 57V**
- **Environmental monitoring** for system input voltage, current , total PoE load and ambient temperature.(-M model)**
- **IP30 metal housing with DIN rail and Wall-mount** design**
- **used in extreme environments with an operating temperature range of -40°C to 75°C (-E model)**

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 IEEE1588 Precision Time Protocol v2
Switch Architecture	Back-plane (Switching Fabric): 24Gbps
Packet Buffer	2Mbit
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	10/100/1000T:10 x ports RJ-45 PoE with Auto MDI/MDI-X function Mini-GBIC: 2 x 100/1000 SFP socket with DDM RS-232 connector: RJ-45 type USB x 1 Power & Relay connector: 1 x 6-pole terminal block DIDO : 1 x 6-pole terminal block
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
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) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
Optical Cable	**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/ 80 km, 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); 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	±44 to 57 VDC
Power Consumption	10W
PoE Budget	Max. 240W
Case Dimension	Metal case. IP-30, 96 (W) x 135 (D) x 152 (H) mm
Weight	900 g

Installation	DIN Rail and Wall Mount** Design
EMI & EMS	FCC Class A, CE EN 55032, CE EN 55024, CE EN 61000-4-2, CE EN 61000-4-3, CE EN 61000-4-4, CE EN 61000-4-5, CE EN 61000-4-6, CE EN 61000-4-8, CE EN 61000-6-4, CE EN 61000-6-2
Stability Testing	IEC 60068-2-32 (Free fall), IEC 60068-2-27 (Shock), IEC 60068-2-64 (Vibration)
Railway compliance*	EN 50121-4, EN 50121-5 EN 55022 (EMV), EN 50125-3 (environmental conditions)
Safety	EN 60950-1
MTBF	830,589 hrs (standards IEC 62830)
Warranty	5 years

Software Specification

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
SNMP MIB	RFC 1215 Traps MIB*, RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB, LLDP MIB RSTP 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 Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease. Protect multicast & unicast data
LTDP**(optional)	Link Train Discovery Protocol with Port based DHCP server to assign the same IP address as well as keep the config file when switch is swapped
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 setting
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups
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 ,total PoE load and ambient temperature to be shown in GUI and sent alerting if any abnormal status (-M models)
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**, QoS QinQ**, Protocol based VLAN** ; IPv4/IPv6 Subnet based VLAN**
IPv6/4	Present
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree with 16MSTI
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
QoS by VLAN	Tagged QoS by VLAN for all devices in the network
IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
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 Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface TACACS+* for Authentication
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 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
SMTP/Text SMS**	Supports SMTP Server and 8 e-mail accounts for receiving event alert; can send SMS** text alert via mobile
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Protection	■ Miss-wiring avoidance ■ Repowered auto ring restore ■ Loop 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**
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 relay/ server
Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
DNS	Provide DNS client feature and support Primary and Secondary DNS server.
SNTP	Supports SNTP to synchronize system clock in Internet
Firmware Update	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade
Configuration backup & restore	Supports text configuration file for system quick installation USB port to upload/download firmware by USB dongle Optional InstaView for mass backup, editing

configuration and upgrade

*Future release

**Optional

***Optional DDM SFP required

ORDERING INFOMATION

- **IPGS-5408DFT……..P/N: 8350-570**
  2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot & dual ±44 ~ 57VDC input; -20°C to 60°C
- **IPGS-5408DFT-E……..P/N: 8350-571**
  2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot &dual ±44 ~ 57VDC input ; -40°C to 75°C
- **IPGS-5408DFT-M……..P/N: 8350-572**
  2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot, environmental monitoring & dual ±44 ~ 57VDC input; -20°C to 60°C
- **IPGS-5408DFT-M-E…..P/N: 8350-573**
  2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T PoE at/af L2+ Industrial Managed Ethernet Switch w/USB slot, environmental monitoring & dual ±44 ~ 57VDC input ; -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- **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)

Mini GBIC (SFP)

- **8330-162X** MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver
- **8330-163X** MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver
- **8330-165X** MINI GBIC 1000LX (LC/SM/10KM) Transceiver
- **8340-0591** MINI GBIC 1000LHX (LC/SM/40KM) Transceiver
- **8330-166** MINI GBIC 1000XD (LC/SM/50KM) Transceiver
- **8330-169** MINI GBIC 1000XD (LC/SM/60KM) Transceiver
- **8330-167** MINI GBIC 1000ZX (LC/SM/80KM) Transceiver
- **8330-170** MINI GBIC 1000EZX (LC/SM/120KM) Transceiver
- **8330-168** MINI GBIC 10/100/1000T (100m) Transceiver
- **8330-060** MINI GBIC 100Base (LC/MM/2KM) Transceiver
- **8330-065** MINI GBIC 100Base (LC/MM/5KM) Transceiver
- **8330-061** MINI GBIC 100Base (LC/SM/30KM) Transceiver
- **8330-197** 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)
- **8330-198** 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)
- **8330-195** 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)
- **8330-196** 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)
- **8330-188** 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)
- **8330-189** 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
- **8330-186** 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)
- **8330-187** 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
- **8330-180** 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
- **8330-182** 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
- **8330-181** 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
- **8330-183** 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
- **8330-184** 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
- **8330-185** 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
- **8330-071** 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
- **8330-072** 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
- **8330-069** 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
- **8330-068** 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
- **8330-080** 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
- **8330-082** 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
- **8330-081** 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
- **8330-083** 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
- **8330-084** 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
- **8330-085** 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
- **8330-191** Dual Speed SFP 100M/1000M-LX 10KM Transceiver

All part no. 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

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