

TPGS-L6408XFT

8 10/100/1000T + 2 10G Copper + 2 10G Fiber Q-ODC OM3 w/8/10

PoE EN50155 OS3 Managed Ethernet Switch w/ Enhanced G.8032

Ring, PXE ; WVI input

- Total 8 10/100/1000T + 2 1G/2.5G/5G/10G Copper + 2 1G/10G SR/LR Fiber Q-ODC OM3 Ethernet Switch w/8 or 10 (incl.8 copper + 2 uplink 10GT copper) PoE ports
- Support IEEE802.3at/af up to 30W per port PoE management incl. Detection and Scheduling
- Support PXE to verify switch firmware with the latest or certain version on server



- Enhanced G.8032 ring protection < 20ms for single ring. Supports enhanced mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI /RSTP; support MRP ring
- Miss-wiring avoidance & node failure protection
- Inrush current protection
- User friendly UI, including auto topology drawing ; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, MLD snooping, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3,TACACS+, QinQ, QoS by VLAN
- Protocol based VLAN ; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- IP54 aluminum enclosure
- Optional L3Lite or IEEE61375-2-5 TBN features to be upgradable
- USB port to upload & download the configuration file
 - Optional smart bypass 10GigaT ports in case of power failure, CPU hang (one pair)
 - Dual power input 16.8V~137.5V with galvanic isolation between input power, PoE and system Factory reset pin to restore factory default setting
- Wide range operation temperature: -40~70C/-40~158F



OVERVIEW

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Lantech TPGS-L6408XFT is a high performance OS3 Ethernet switch with 8 10/100/1000T + 2 1G/2.5G/5G/10G Copper + 2 1G/10G SR/LR Fiber Q-ODC OM3 w/8 or 10 PoE (incl.8 copper + 2 uplink 10GT copper) 802.3af/at ports which provides advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports enhanced mode with easy configuration. The comprehensive QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL and Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port are supported and also required in large network. It also supports10K Jumbo frames.

Up to 8/10 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech TPGS-L6408XFT is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. Lantech TPGS-L6408XFT 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, node failure protection, Loop protection

The TPGS-L6408XFT also embedded several features for strong and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech TPGS-L6408XFT 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.



Support PXE to verify switch firmware with latest or certain version

The switch can check its firmware version during booting time via PXE protocol. If switch finds any newer version, it will upload automatically.

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. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application. Basic IPv6 DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes TPGS-L6408XFT much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP; MRP ring

Lantech TPGS-L6408XFT 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 enhanced ring and basic ring by easy setup than others. It supports MSTP that allows RSTP over VLAN for redundant links with 8 MSTI. MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN

Lantech OS3 Ethernet switches comply with IEC 61375-3-4 (ECN) standard. The support of Ethernet Consist Network allows interconnection between end devices located in single consist of train and interoperability with IEC61375-2-5 (TBN).

Enhanced Storm control*

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces and the detection is more precise and reaction is more efficient.

Optional L3Lite/L3*/ETBN to be upgradable

Lantech OS3 are optional upgradable to L3 Lite/ L3* or ETBN communication protocols for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing. Optional ETBN complies with IEC61375-2-5 ETBN for Train Backbone Network.

QinQ, QoS and GVRP supported

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

Protocol based VLAN; Subnet based VLAN

The protocol-based VLAN processes traffic based on protocol. It filters IP traffic from nearby end-stations using a particular protocol such as IP, IPX, ARP or other Ethernet-types in a Hex value. Subnet based VLANs group traffics into logical VLANs based on the source IP address and IP subnet. The above features can help to build VLAN in the network mixed with managed and un-managed switch as to define packets to which VLAN group based on protocol or subnet.

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.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech TPGS-L6408XFT can be exported and edited with word processor for the following switches to configure with ease.

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

Event log & message; 2 DI + 2DO; Factory default pin

TPGS-L6408XFT 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 outside alarm and switch will send alert information to IP network with email and traps. The factory reset pin can restore the setting back to factory default.

Dual WVI input with max PoE budget and Inrush current protection

The TPGS-L6408XFT WVI model accept 16.8~137.5VDC dual input with galvanic protection and can feed 54V output for PoE feeding with 80W budget.

A voltage which can be minimal 0,5 Un nominal voltage (when Vin \geq 36V) and/or a voltage which can be maximal 1,5 Un nominal voltage for more than 1000 consecutive ms (one second).

The inrush current on initial power up can be limited lower than 10 x nominal current and for less than 1ms.

Enhanced environmental monitoring for switch inside information

The enhanced environmental monitoring can detect switch overall temperature, total power load, actual input voltage and current. It also can send the SNMP traps alert when abnormal.

Optional smart bypass protection on 10G cooper ports**

The bypass relay is set to bypass the switch to the next one when power is off to prevent network disruption. Lantech bypass caters to remain in bypass mode until the switch is completely booting up when power is back to avoid another network lost. Optional smart bypass (one pair) can be activated when switch encounters power failure or CPU fail. (-BT model)

EN50155, EN45545-2, EN61373 verification; High ESD protection

TPGS-L6408XFT passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, the TPGS-L6408XFT is best switch for railway on-board/track side, vehicle and mining applications. For more usage flexibilities, TPGS-L6408XFT supports wide operating temperature from -40°C to 70°C. (85°C operation for 10min.)



FEATURES & BENEFITS

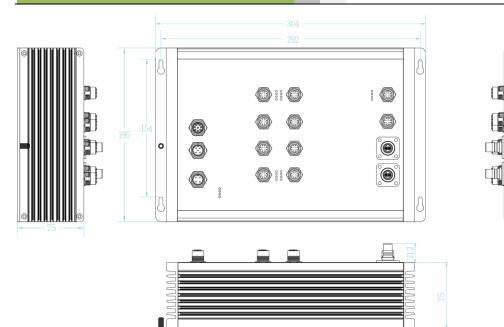
- 8 10/100/1000T + 2 1G/2.5G/5G/10G Copper M12 X-coded + 2 1G/10G SR/LR Fiber Q-ODC OM3 Ethernet Switch w/8 or 10 (incl.8 copper + 2 uplink 10GT copper) PoE 802.3af/at ports (Total 12 Ports Switch) to feed power up to 30W for active mode operation
- Dual WVI input (16.8V~137.5VDC) for PoE budget 80W
- Galvanic isolation from power input/Ethernet ports to system 1.5KV
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 96Gbps
- 16K MAC address table
- 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 enhanced ring & basic ring
 - Enhanced G.8032 ring configuration with ease 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 8 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
- Support PXE to verify switch firmware with the latest or certain version
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66 ; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress* rate limit
 - Broadcast/multicast packet filter control
- 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

- System Event Log, SMTP alert and SNMP Trap for alarm support
- Inrush current protection
- Security
 - SSL/SSH v2/INGRESS ACL L2/L3
 - MAC address table: MAC address
 - entries/Filter/static MAC-Port binding
 - Remote Admin: 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 for multicast protection
- IGMPv1,v2,v3 with Query mode for multi media
- Dual image firmware support
- MLD Snooping for IPv6 Multicast stream
- Factory reset pin to restore setting to factory default
- Enhanced environmental monitoring for system actual input voltage, current, ambient temperature and total power load
- Supports 2DI/2DO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
 - USB port for upload/download the configuration
- TFTP/HTTP firmware upgrade
- Wide operation temperature: -40~70C/-40~158F (85°C operation for 10min.)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN
- Diagnostic including Ping / ARP table / DDM information
- Enhanced Storm Control*
- Optional L3Lite/L3*/ETBN to be upgradable
- Optional smart bypass (One pair) (-BT model)
- IP54 aluminum housing with wall mount design



DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification Single mode: 0 to 10 km/ 20 km, 1310 nm IEEE802.3 10Base-T Ethernet (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm Standards IEEE802.3u 100Base-TX (9/125 µm) IEEE802.3ab 1000Base-T LED Per unit: Power 1 (Green), Power 2 (Green), IEEE802.3an 10Gbase-T FAULT (Red); RM(Green) IEEE802 3ae 10Gbase-SR/LR 10/100/1000T Ethernet port: Link/Activity IEEE802.3x Flow Control and Back Pressure (Green) IEEE802.3ad Port trunk with LACP 1G/2.5G/5G/10G copper: Link/Act (1G/2.5G/5G: IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree Yellow; 10G: Orange) IEEE802.1s Multiple Spanning Tree 1G/10G fiber: Link/Act (Orange) PoE : Link/Act (Green) IEEE802.3ad Link Aggregation Control Protocol DI/DO (LACP) 2 Digital Input (DI) : IEEE802.1AB Link Layer Discovery Protocol Level 0: -30~2V / Level 1: 10~30V (LLDP) Max. input current:8mA IEEE802.1X User Authentication (Radius) 2 Digital Output(DO): Open collector to 40 VDC, IEEE802.1p Class of Service 200mA Operating Humidity IEEE802.1Q VLAN Tag 5% ~ 95% (Non-condensing) IEEE802.3at/af Power over Ethernet Operating Temperature Switch Back-plane (Switching Fabric): 96Gbps -40°C~70°C / -40°F~158°F (85°C operation for Architecture 10min.) Mac Address 16K MAC address table Storage Temperature -40°C~85°C / -40°F~185°F Jumbo frame 10KB 10/100/1000T: 8 x M12 8-pole X-coded with Power Supply Dual DC input, 16.8VDC~137.5VDC Auto MDI/MDI-X function PoE Budaet Maximal 1G/2.5G/5G/10G Copper: 2x M12 8-pole X-Input Range Power Input PoE Budget coded port 9-10 1G/10G FX: 2x ports Q-ODC OM3 with multi-16.8~27VDC Dual Power Input 80W mode/single-mode fiber 28~137.5VDC Single Power Input 80W Power Input connector: 1 x M12 4-pole Male A-PoE pin M12 port #1~#8 (-8 model) ; #9~#10 (-10 coded model) ; support IEEE 802.3at/af End-point, Reset/Console/USB : 1 x M12 8-pole A-coded Alternative A mode DIDO: 1 x M12 5-pole A-coded max. 37.3W exclude PoE load Network Cable 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat6a/7 cable 1Gbps: IP54 model: Aluminum case Multi-mode: 0 to 550 m, 850 nm (50/125 µm); 0 304mm(W)x195mm(H)x96.2mm(D) to 2 km, 1310 nm (50/125 µm) 4.8kas Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 Wall Mount Design nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 EMI & EMS FCC Part 15 Class A EN61000-6-2 km, 1550 nm (9/125 µm) EN61000-6-4 10Gbps Multi-mode: 0 to 300 m, 850 nm (OM3 50/125 CE EN55032 Class A CE EN55024 um):

Datasheet Version 1.5

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	CE EN61000-4-2 (ESD) Level 3
	CE EN61000-4-3 (RS) Level 3
	CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3
	CE EN61000-4-6 (CS) Level 3
	CE EN61000-4-8 (Magnetic field) Level 3
Verifications	EN50155/EN50121-3-2/EN50121-4 ;
	EN45545-2 R13/R22/R23/R24/R25
	(EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1
Stability Teating	& 2) Fire & Smoke verification EN61373 (Shock and Vibration)
Stability Testing MTBF	420,638 hrs (standards: IEC 62380)
Warranty	5 years
Bypass**	One pair bypass module on 10GT ports to pass
	to next switch in case of power failure and CPU fail
Software S	pecification
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
SNMP MIB	RFC 1213 MIBII
	RFC 1158 MIB
	RFC 1157 SNMP MIB
	RFC 1493 Bridge MIB*
	RFC 1573 IF MIB
	RFC 2674 Q-Bridge MIB*
	RFC 2819 RMON MIB Private MIB
ITU G.8032	Support ITU G.8032 for Ring protection in less
	than 20ms for self-heal recovery (single ring
	enhanced mode)
	Support basic single ring & enhanced ring
	Enhanced G.8032 ring configuration with ease
	Cover multicast & data packets protection
PoE	PoE Detection to check if PD hangs then restart
Management	the PD BoE schoduling
Per Port PoE	PoE scheduling On/ Off, voltage, current, watts, temperature
Status	
User friendly UI	Auto topology drawing
	 Topology demo Complete CLI for professional setting
Port Trunk with	LACP Port Trunk: 8 Trunk groups
LACP	
LLDP	Supports LLDP to allow switch to advise its
CDP	identification and capability on the LAN Cisco Discovery Protocol for topology mapping
Enhanced	System status for actual input voltage, current ,
Environmental	total power load and ambient temperature to be
Monitoring	shown in GUI and sent alerting if any abnormal status
VLAN	Status 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
	Protocol based VLAN
	IPv4 Subnet based VLAN
Spanning Tree	Supports IEEE802.1d Spanning Tree and
	IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI
Quality of	The quality of service determined by port, Tag
Quality of Service	and IPv4 Type of service, IPv4 Differentiated
Service	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port
Service Class of Service	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues
Service	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port
Service Class of Service	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission
Service Class of Service Remote Admin Login Security	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS
Service Class of Service Remote Admin	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both
Service Class of Service Remote Admin Login Security Port Mirror	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both packet"
Service Class of Service Remote Admin Login Security	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission
Service Class of Service Remote Admin Login Security Port Mirror	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission to access the switch management and to
Service Class of Service Remote Admin Login Security Port Mirror	and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS Support 3 mirroring types: "RX, TX and Both packet" Support 10 IP addresses that have permission

	based authentication/static MAC-Port binding
	Ingress ACL L2/L3
	SSL/SSH v2 for Management
	HTTPS for secure access to the web interface
	TACACS+ for Authentication
MLD Snooping	Support IPv6 Multicast stream
IGINIP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 1024 multicast groups; IGMP
	router port ; IGMP query; GMRP
Static multicast	Static multicast forwarding forward reversed
forwarding	IGMP flow with multicast packets binding with
	ports for IP surveillance application
Bandwidth	Support ingress packet filter and egress* packet
Control	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
Flow Control	ingress packet filter and the egress* packet limit. Supports Flow Control for Full-duplex and Back
	Pressure for Half-duplex
System Log	Supports System log record and remote system
Protection	log server ■ Miss-wiring avoidance
	 Node failure protection
	Loop protection
SNMP Trap	Up to 5 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
PXE	Environmental abnormal PXE to verify switch firmware with the latest or
	certain version
DHCP	Provide DHCP Client/ DHCP Server/DHCP
	Option 82/Port based DHCP; DHCP Option 66 ; Basic IPv6 DHCP server
Mac based	Assign IP address by Mac in DHCP network
DHCP Server	
DNS	Provide DNS client feature and can set Primary
NTP/SNTP	and Secondary DNS server Supports NTP/SNTP to synchronize system
	clock in Internet
Firmware Update	Supports TFTP firmware update, TFTP backup
Configuration	and restore; HTTP firmware upgrade Supports editable configuration file for system
Configuration upload and	quick installation; Support factory reset ping to
download	restore all settings back to factory default
Enhanced Storm	prevents traffic on a LAN from being disrupted
Control*	by a broadcast, multicast, or unicast storm on
ECN	one of the physical interfaces Complies with IEC 61375-3-4 (ECN) standard.
2011	The support of Ethernet Consist Network allows
	interconnection between end devices located in
	single consist of train and interoperability with IEC61375-2-5 (TBN).
Optional	Lantech OS3 are optional upgradable to L3 Lite/
L3Lite/L3*/ETBN	L3* or ETBN communication protocols for future
**	expansion. The optional L3Lite includes editable
	routing table, VRRP, Router-on-a-stick, Inter- VLAN routing. Optional ETBN complies with
	IEC61375-2-5 ETBN for Train Backbone
	Network.
Diagnostic	Detail SPEC upon request. Support Ping, ARP table and DDM information
Dual Image	Support dual image firmware function
Firmware	

*Future release **Optional



ORDERING INFORMATION

All model packages include M12 caps. For optional bypass add –BT (one pair copper bypass) to end of model names. For Coating add –C to end of model names.

TPGS-L6408XFT-8-QMM-54-WVI.....P/N: 8361-496

8 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Multimode Fiber Q-ODC OM3 Giga 550M ; w/8 PoE at/af EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation

TPGS-L6408XFT-8-QMM-54-WVI-BT-C.....P/N: 8361-4962

8 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Multimode Fiber Q-ODC OM3 Giga 550M; w/8 PoE at/af EN50155 OS3 Managed Ethernet Switch; 16.8V-137.5VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation; one pair Copper bypass; w/conformal coating

TPGS-L6408XFT-8-QSM-54-WVI......P/N: 8361-4961

8 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Single mode Fiber Q-ODC OM3 up to 40KM; w/8 PoE at/af EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation

TPGS-L6408XFT-10-QMM-54-WVI......P/N: 8361-4963

8 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Multimode Fiber Q-ODC OM3 Giga 550M; w/10 PoE at/af incl.2 10GT EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation

TPGS-L6408XFT-10-QSM-54-WVI......P/N: 8361-4964 8 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Single mode Fiber Q-ODC OM3 up to 40KM; w/10 PoE at/af incl.2 10GT EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation

OPTIONAL ACCESSORIES

Software package

OS3 – L3L P/N: 9000-114
 OS3 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details)
 OS3 – IEC61375-2-5 P/N: 9000-115

OS3 software platform with IEC-61375-2-5 ETBN (Ethernet Train Backbone Networks) function (please check Lantech software data sheet for details)

OS3 – L3*......P/N: 9000-116
 OS3 software platform with Layer 3 functions (please check Lantech software data sheet for details)

M12 Connector & Cable

Connector	
ECONM12-04A(F)-C-180	4 pin M12 (Female) A-coded 180 degree crimp type connector for power supply
ECONM12-08A(M)-180	8 pin M12 (Male) A-coded 180 degree crimp type connector for reset/console/USB
ECONM12-05A(M)-C-180	5 pin M12 (Male) A-coded 180 degree crimp type connector for DI/DO
ECONM12-08X(M)-SPEEDCON	8 pin M12 (Male) X-coded 180 degree crimp type connector for data, Ethernet CAT6A (10G), shielded, SPEEDCON
Cable	
ECONM12-4P(F)1.5M CABLE	4 pin M12 (Female) A-coded 90 degree cable for power supply, 150cm
ECONM12-08M2-CONSOLE	8 pin M12 (Male) A-coded 180 degree to RS232 cable for console, 150cm
ECABM12X83MSTP	8 pin M12 (Male) X-coded 180 degree RJ45 STP cable for data, shielded, 300cm
ECABMO02-QOP2-3.0-MM-OM3	Q-ODC 2 plug/LC multimode fiber, MM-OM3, 300cm
Others	
USB adapter	8pin M12 (Male) A-coded 180 degree M12 to USB 2.0 interface adapter, 8cm

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