

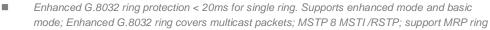
TPGS-R6416XFT

16 10/100/1000T + 2 10G Copper + 2 10G SR/LR Fiber Q-ODC OM3

w/8/10/16 PoE, EN50155 OS4 Managed Ethernet Switch w/ Enhanced G.8032

Ring, PXE; WVI input

- Total 16 port 10/100/1000T + 2
 1G/2.5G/5G/10G Copper + 2 1G/10G
 Q-ODC OM3 Fiber Ethernet Switch
 w/10 (incl.8 10/100/1000T + 2 uplink
 10GT copper) or w/8/16 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



- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing; 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, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3, QinQ, QoS by VLAN
- Protocol based VLAN; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- IP21 aluminum enclosure
- Inrush current protection
- Optional smart bypass 10GigaT ports in case of power failure, CPU hang (one pair copper bypass and one pair fiber bypass)
- Optional L3Lite or IEC 61375-2-5 TBN features to be upgradable
- USB port to upload & download the configuration file
- Dual power input 16.8V~137.5V with galvanic isolation between input power, PoE and system
- Factory reset pin to restore to factory default setting
- Wide range operation temperature : -40C~70C/-40F~158F

























OVERVIEW

Lantech TPGS-R6416XFT is a high performance OS4 Ethernet switch with 16 10/100/1000T + 2 1G/2.5G/5G/10G Copper + 2 1G/10G Q-ODC OM3 Fiber with w/10 (incl.8 10/100/1000T + 2 uplink 10GT copper) or w/8/16 PoE 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, 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 supports 10K Jumbo frames.

Up to 8/10/16 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech TPGS-R6416XFT is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. Lantech TPGS-R6416XFT 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 port can be enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Dual WVI input with max PoE budget and Inrush current protection

The TPGS-R6416XFT 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≥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.

Miss-wiring avoidance, node failure protection, Loop



protection

The TPGS-R6416XFT 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-R6416XFT 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 with the 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.

Enhanced Storm control

Strom 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.

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

Lantech OS4 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).

Optional L3Lite/L3*/ETBN to be upgradable

Lantech OS4 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.

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. 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-R6416XFT much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, MSTP 8 MSTI; MRP ring and GVRP supported

Lantech TPGS-R6416XFT 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.

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.

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.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech TPGS-R6416XFT 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.

2 DI + 2DO; Factory default pin

TPGS-R6416XFT 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.

Optional smart bypass protection on 10GT 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 copper bypass and one pair fiber bypass) can be activated when switch encounters power failure or CPU fail. (-BT/-BF/-BT-BF model)

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.

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

TPGS-R6416XFT passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, the TPGS-R6416XFT is best switch for railway on-board/track side, vehicle and mining applications. For more usage flexibilities, TPGS-R6416XFT supports wide operating temperature from -40°C to 70°C. (85°C operation for 10min.)



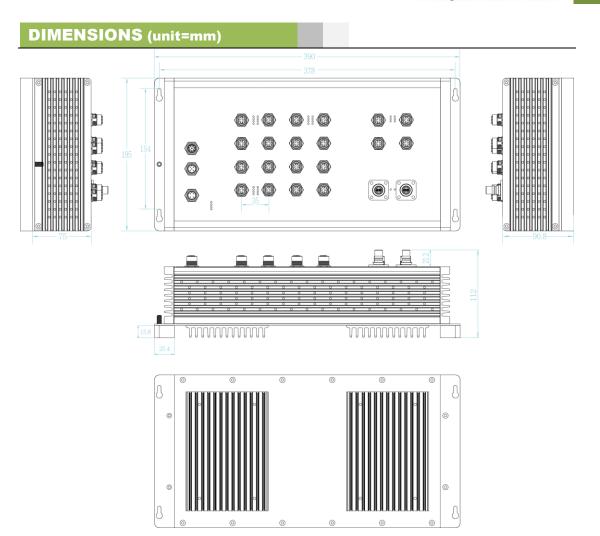
FEATURES & BENEFITS

- 16 10/100/1000T D-coded + 2 1G/2.5G/5G/10G Copper X-coded + 2 1G/10G Fiber Q-ODC OM3 w/8/16 PoE 802.3af/at ports or w/10 (incl. 8 10/100/1000T + 2 uplink 10GT copper) PoE 802.3af/at ports (Total 20 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): 112Gbps
- 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
- Subnet VLAN and protocol VLAN
- 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 Snooping; DHCP Option 66; basic IPv6 DHCP server
- Mac based DHCP server to assign IP address that 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
- 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
- MLD snooping for IPv6 Multicast steam
- IGMPv1,v2,v3 with Query mode for multi media
- Dual image firmware support
- Factory reset pin to restore setting to factory default
- Enhanced environmental monitoring for system real input voltage, current, ambient temperature and total PoE 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 config
- TFTP/HTTP firmware upgrade
- Wide operation temperature: -40C~70C/-40F~158F (85°C operation for 10min.)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration compliance
- Optional smart bypass (one pair copper bypass and one pair fiber bypass) (-BT/-BF/-BT-BF model)
- Inrush current protection
- Diagnostic including Ping / ARP table / DDM information
- Enhanced Storm Control
- Optional L3Lite/L3*/ETBN to be upgradable
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN
- IP21 aluminum housing with wall mount design





SPECIFICATIONS

Hardware S	Specification	Network Cable	1000Base-T: 4-pair STP Cat5E/6 cable;
Standards	IEEE802.3 10Base-T Ethernet		10G Copper: 4-pair STP Cat6a/7 cable
	IEEE802.3u 100Base-TX		1Gbps:
	IEEE802.3ab 1000Base-T		Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2
	IEEE802.3ak 10Gbase-T		km, 1310 nm (50/125 μm)
	IEEE802.3x Flow Control and Back Pressure		Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm
	IEEE802.3ad Port trunk with LACP		(9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km,
	IEEE802.1d Spanning Tree		1550 nm (9/125 µm)
	IEEE802.1w Rapid Spanning Tree		` ' '
	IEEE802.1s Multiple Spanning Tree		10Gbps
	IEEE802.3ad Link Aggregation Control Protocol		Multi mode: 0 to 300 m, 850 nm (OM3 50/125 μm);
	(LACP)		Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125
	IEEE802.1AB Link Layer Discovery Protocol		μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125
	(LLDP)		μm)
	IEEE802.1X User Authentication (Radius)	LED	Per unit: Power 1 (Green), Power 2 (Green),
	IEEE802.1p Class of Service		FAULT (Red); RM(Green)
	IEEE802.1Q VLAN Tag		10/100/1000T Ethernet port: Link/Activity (Green)
	IEEE802.3at/af Power over Ethernet		1G/2.5G/5G/10G port: speed (1G/2.5G/5G: Yellow ;
Switch	Back-plane (Switching Fabric): 112Gbps		10G: Orange)
Architecture			3 /
Mac Address	16K MAC address table		1G/10G fiber: Link/Act (Orange)
Jumbo frame	10KB	DI/DO	PoE : Link/Act (Green)
Connectors	10/100/1000T: 16 x M12 4-pole D-coded with Auto	טעעט	2 Digital Input (DI) :
	MDI/MDI-X function		Level 0: -30~2V / Level 1: 10~30V
	1G/2.5G/5G/10G Copper: 2 x M12 8-pole X-coded		Max. input current:8mA
	port 17-20		2 Digital Output(DO): Open collector to 40 VDC, 200mA
	1G/10G FX: 2x ports Q-ODC OM3 with multi-	Operating	5% ~ 95% (Non-condensing)
	mode/single-mode fiber	Humidity	5% ~ 95% (Non-condensing)
	Power Input connector: 1 x M12 4-pole Male A-		-40°C~70°C/-40°F~158°F (85°C operation for
	coded	Operating Temperature	10min.)
	Reset/Console/USB: 1 x M12 8-pole A-coded		-40°C~85°C / -40°F~185°F
	DIDO: 1 x M12 5-pole A-coded	Storage	-40 C~00 C / -40 F~ 100 F



Temperature Power Supply	Dual DC input, 16.8VDC~137.5VDC			IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI
PoE Budget		Maximal	Quality of Service	The quality of service determined by port, Tag and
	Input Range Power Input	PoE Budget		IPv4 Type of service, IPv4 Differentiated Services Code Points – DSCP
	16.8~27VDC Dual Power Input 28~137.5VDC Single Power Input	80W 80W	Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
PoE pin	M12 port #1~#8/16 (-8/-16 model); #17~#	18 (-10	Remote Admin	Supports 10 IP addresses that have permission to
assignment	model); support IEEE 802.3at/af End-poir Alternative A mode	nt,		access the switch management and to prevent unauthorized intruder
Power	Max. 45.9W exclude PoE load		Login Security	Supports IEEE802.1X Authentication/RADIUS
Consumption Dimensions			Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	IP21 model: Aluminum case 390mm(W)x195mm(H)x112mm(D)		Network Security	Support 10 IP addresses that have permission to
Weight	5.15 kgs			access the switch management and to prevent
Installation	Wall Mount Design			unauthorized intruder.
EMI & EMS	FCC Part 15 Class A			802.1X access control for port based and MAC
	EN61000-6-2 EN61000-6-4			based authentication/static MAC-Port binding
	CE EN55032 Class A			Ingress ACL L2/L3
	CE EN55024			SSL/SSH v2 for Management
	CE EN61000-4-2 (ESD) Level 3			HTTPS for secure access to the web interface
	CE EN61000-4-3 (RS) Level 3		IGMP	TACACS+ for Authentication
	CE EN61000-4-4 (EFT) Level 3		- IOIVII	Support IGMP snooping v1,v2,v3; Supports; 1024 multicast groups; IGMP router port; IGMP query;
	CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3			GMRP
	CE EN61000-4-8 (Magnetic field) Level 3		MLD Snooping	Support IPv6 Multicast stream
Verifications	EN50155/EN50121-3-2/EN50121-4;		Static multicast	Static multicast forwarding forward reversed IGMP
	EN45545-2 R13/R22/R23/R24/R25	400.4.0	forwarding	flow with multicast packets binding with ports for IP
	(EN ISO 4589-2, EN ISO 5659-2, NF X70- 2) Fire & Smoke verification	-100-1 &		surveillance application
Stability Testing	EN61373 (Shock and Vibration)		Bandwidth Control	Support ingress packet filter and egress* packet
MTBF	TBC (standards: IEC 62380)			limit. The egress* rate control supports all of packet type.
Bypass**	One pair copper and one pair fiber bypass			Ingress filter packet type combination rules are
	Copper ports and 10GT Fiber Q-ODC ports next switch in case of power failure and Cl			Broadcast/Multicast/Flooded Unicast packet,
Warranty	5 years	r o nang		Broadcast/Multicast packet, Broadcast packet only and all types of packet.
Software Sp				The packet filter rate can be set an accurate value
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI			through the pull-down menu for the ingress packet
SNMP MIB	RFC 1213 MIBII		Flow Control	filter and the egress* packet limit. Supports Flow Control for Full-duplex and Back
	RFC 1158 MIB		1 low Control	Pressure for Half-duplex
	RFC 1157 SNMP MIB RFC 1493 Bridge MIB*		System Log	Supports System log record and remote system log
	RFC 1573 IF MIB		Protection	server Miss-wiring avoidance
	RFC 2674 Q-Bridge MIB*		Fiolection	Miss-wiring avoidanceNode failure protection
	RFC 2819 RMON MIB			■ Loop protection
ITI I O COCC	Private MIB		SNMP Trap	Up to 5 trap stations; trap types including:
ITU G.8032	Support ITU G.8032 for Ring protection in			Device cold start Authorization failure
	20ms for self-heal recovery (single ring en	hanced		Port link up/link down
	mode) Support basic single ring & enhanced rings			DI/DO open/close
	Includes basic single ring and enhanced ri			 Typology change(ITU ring)
	Enhanced G.8032 ring configuration with a			Power failure
	Cover multicast & data packets protection		DVE	Environmental abnormal ENVE to verify switch firmware with the lettest or
PoE Management	PoE Detection to check if PD hangs then r		PXE	PXE to verify switch firmware with the latest or certain version
	PD PoE scheduling		DHCP	Provide DHCP Client/ DHCP Server/DHCP Option
Per Port PoE	On/ Off, voltage, current, watts, temperatu	ire		82/Port based DHCP; DHCP Snooping; DHCP
Status			Mac based DHCP	Option 66 ; basic IPv6 DHCP server Assign IP address by Mac in DHCP network
User friendly UI	 Auto topology drawing Topology demo 		Server	Acongst in address by Mac III Dillor Helwork
	Topology demoComplete CLI for professional set	tting	Enhanced Storm	prevents traffic on a LAN from being disrupted by a
Port Trunk with	LACP Port Trunk: 8 Trunk groups		Control	broadcast, multicast, or unicast storm on one of the
LACP	• •			physical interfaces
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN	S	ECN	Complies with IEC 61375-3-4 (ECN) standard. The
CDP	Cisco Discovery Protocol for topology map	oping		support of Ethernet Consist Network allows interconnection between end devices located in
Enhanced	System status for real input voltage, currer	nt , total		single consist of train and interoperability with
Environmental Manitoring	PoE load and ambient temperature to be s			IEC61375-2-5 (TBN).
Monitoring VLAN	GUI and sent alerting if any abnormal state Port Based VLAN	us	Optional	Lantech OS4 are optional upgradable to L3 Lite/
	IEEE 802.1Q Tag VLAN (256 entries)/ VLA	AN ID (Up	L3Lite/L3*/ETBN**	L3* or ETBN communication protocols for future expansion. The optional L3Lite includes editable
	to 4K, VLAN ID can be assigned from 1 to			routing table, VRRP, Router-on-a-stick, Inter- VLAN
				" O " LETON " " IN IECONOTE O
	GVRP, QinQ, QoS Protocol based VLAN			routing. Optional ETBN complies with IEC61375-2-
	GVRP, QinQ, QoS Protocol based VLAN IPv4 Subnet based VLAN			5 ETBN for Train Backbone Network. Detail SPEC upon request.

*Future release *Optional



	and Secondary DNS server	Diagnostic	Support Ping, ARP table and DDM information
NTP/SNTP	Supports NTP/SNTP to synchronize system clock in Internet	Dual Image Firmware	Support dual image firmware function
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade	riniware	*Future relea **Optio
Configuration upload and download	Supports editable configuration file for system quick installation; Support factory reset pin to restore all settings back to factory default		Орно

ORDERING INFORMATION

All model packages include M12 caps. For optional bypass add -BT (one pair copper bypass); -BF (one pair Fiber bypass); -BT-BF (one pair copper & one pair fiber bypass) to end of model names. For Coating add -C to end of model names.

TPGS-R6416XFT-8-QMM-21-WVI......P/N: 8361-559

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber multi-mode Q-ODC OM3 Giga 550M; w/8 PoE at/af EN50155 OS4 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE galvanic isolation

TPGS-R6416XFT-8-QSM-21-WVI......P/N: 8361-5591

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber single-mode Q-ODC OM3 up to 40KM; w/8 PoE at/af EN50155 OS4 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE galvanic isolation

TPGS-R6416XFT-10-QMM-21-WVI......P/N: 8361-5592

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber multi-mode Q-ODC OM3 Giga 550M; w/10 PoE at/af incl. 2 10GT EN50155 OS4 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE

TPGS-R6416XFT-10-QSM-21-WVI......P/N: 8361-5593

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber single-mode Q-ODC OM3 up to 40KM; w/10 PoE at/af incl. 2 10GT EN50155 OS4 Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE galvanic isolation

TPGS-R6416XFT-16-QMM-21-WVI......P/N: 8361-5594

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber multi-mode Q-ODC OM3 Giga 550M : w/16 PoE at/af EN50155 OS4 PoE Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE galvanic isolation

TPGS-R6416XFT-16-QSM-21-WVI......P/N: 8361-5595

16 10/100/1000T + 2 10G Copper M12 X-coded + 2 1G/10G Fiber single-mode Q-ODC OM3 up to 40KM; w/16 PoE at/af EN50155 OS4 PoE Managed Ethernet Switch; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP21 housing w/ PoE galvanic isolation

OPTIONAL ACCESSORIES

Software package

OS4 - L3L..... P/N: 9000-110

OS4 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details)

OS4 - IEC61375-2-5 P/N: 9000-111

OS4 software platform with IEC-61375-2-5 ETBN (Ethernet Train Backbone Networks) function incl. L3L (please check Lantech software data sheet for details)

OS4 - L3......P/N: 9000-112

OS4 software platform with Layer 3 functions incl. R-NAT, IEC61375-2-5 and L3L (please check Lantech software data sheet for details)

OS4 – R-NAT P/N: 9000-113

OS4 software platform with R-NAT function incl. IEC61375-2-5 and L3L (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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