

TPGS-R5608MGT

8 10/100/1000T + 6 1G/2.5G Copper M12 X-coded w/8/10/12 PoE at/af

EN50155 OS4 Managed Ethernet Switch w/ Enhanced G.8032 Ring,

PXE; WVI input

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- Total 8 10/100/1000T + 6 1G/2.5G Copper M12 X-coded w/8 or 10/12 (incl.8 copper + 2/4 uplink 1G/2.5G copper) PoE Ports
- Support IEEE802.3at/af up to 30W per port PoE management incl. Detection and Scheduling
- 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
- 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
- Support PXE to verify switch firmware with the latest or certain version on server
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- Optional smart bypass 1G/2.5G ports in case of power failure, CPU hang (Up to two pairs)
- IP21 aluminum enclosure
- Optional L3Lite or IEEE61375-2-5 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
- Inrush current protection
 - Wide range operation temperature :-40~70C/-40~158F



OVERVIEW

Lantech TPGS-R5608MGT is a high performance OS4 Ethernet switch with 8 10/100/1000T + 6 1G/2.5G Copper M12 X-Coded with 8 or 10/12 (incl.8 copper + 2/4 uplink 1G/2.5G copper) 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, TACACS+, SSH v2/SSL and subnet VLAN, protocol VLAN 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.

Miss-wiring avoidance, node failure protection, Loop protection

The TPGS-R5608MGT 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-R5608MGT 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 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.

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-R5608MGT 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-R5608MGT 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 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).

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 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.

Up to 8/10/12(at) PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech TPGS-R5608MGT is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. Lantech TPGS-R5608MGT 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.

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-R5608MGT 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; 2DI + 2DO; Factory default pin

TPGS-R5608MGT 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.

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 dual 1G/2.5G 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 (Up to two pairs) can be activated when switch encounters power failure or CPU hang. (-BT/-BBT model)

Dual WV input with max PoE budget and Inrush current protection

The TPGS-R5608MGT 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.

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

TPGS-R5608MGT passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, the TPGS-R5608MGT is best switch for railway on-board/track side, vehicle and mining applications. For more usage flexibilities, TPGS-R5608MGT supports wide operating temperature from -40°C to 70°C. (85°C operation for 10min.)



FEATURES & BENEFITS

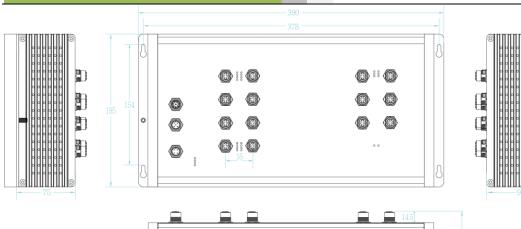
- 8 10/100/1000T + 6 1G/2.5G Copper auto-sensing OS4 Ethernet Switch with 8 or 10/12 (incl.8 copper + 2/4 uplink 1G/2.5G copper) PoE 802.3af/at ports (Total 14 Ports Switch) to feed power up to 30W for active mode operation
- Dual WV input (16.8V~137.5VDC) for PoE budget 80W
- Galvanic isolation from power input/Ethernet ports to system 1.5KV
- Back-plane (Switching Fabric): 46Gbps
- 16K MAC address table
- 10KB Jumbo frame
- PoE management including PoE detection and scheduling for PD (power devices)
- 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
- Subnet VLAN and protocol VLAN
- 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

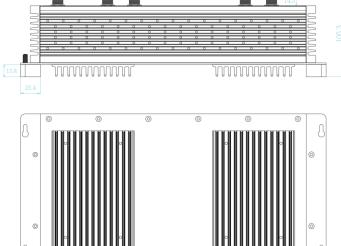
switch is back

- System Event Log, SMTP alert and SNMP Trap for alarm support
- 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 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 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 verification
- 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
- Optional smart bypass (Up to two pairs) (-BT/-BBT model)
- Inrush current protection
- IP21 aluminum housing with wall mount design

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SPECIFICATIONS

Hardware Specification			100Base-TX: 2-pair STP Cat. 5/ 5E/ 6 cable;	
Standards	IEEE802.3 10Base-T Ethernet		EIA/TIA-568 100-ohm (100m)	
	IEEE802.3ab 1000Base-T		1000Base-T: 4-pair STP Cat5E/6 cable	
	IEEE802.3x Flow Control and Back Pressure	LED	Per unit: Power 1 (Green), Power 2 (Green),	
	IEEE802.3ad Port trunk with LACP		FAULT (Red); RM(Green)	
	IEEE802.1d Spanning Tree		10/100/1000T Ethernet port: Link/Activity	
	IEEE802.1w Rapid Spanning Tree		(Green)	
	IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol		1G/2.5G copper: Link/Act (Yellow)	
	(LACP)		PoE : Link/Act (Green)	
	IEEE802.1AB Link Layer Discovery Protocol	DI/DO	2 Digital Input (DI) :	
	(LLDP)		Level 0: -30~2V / Level 1: 10~30V	
	IEEE802.1X User Authentication (Radius)		Max. input current:8mA	
	IEEE802.1p Class of Service		2 Digital Output(DO): Open collector to 40 VDC,	
	IEEE802.1Q VLAN Tag	o <i>i</i> :	200mA	
	IEEE802.3at/af Power over Ethernet	Operating	5% ~ 95% (Non-condensing)	
Switch	Back-plane (Switching Fabric): 46Gbps	Humidity Operating	-40°C~70°C / -40°F~158°F (85°C operation for	
Architecture		Temperature	10min.)	
Mac Address	16K MAC address table	Storage	-40°C~85°C / -40°F~185°F	
Jumbo frame	10KB	Temperature	-40 0-03 07 401 -103 1	
Connectors	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 Budget	Maximal	
	1G/2.5G Copper: 4 x M12 8-pole X-coded with Auto MDI/MDI function		Input Range Power Input PoE	
	Power Input connector: 1 x M12 4-pole Male A-		Budget	
	coded		16.8~27VDC Dual Power Input 80W	
	Reset/Console/USB : 1 x M12 8-pole A-coded		28~137.5VDC Single Power Input 80W	
	DIDO: 1 x M12 5-pole A-coded	PoE pin	M12 port #1~#8 (-8 model) ; #11~#14 (-10/-12	
Network Cable	10Base-T: 2-pair STP Cat. 3, 4, 5/ 5E/ 6 cable	assignment	model) ; support IEEE 802.3at/af End-point,	
	EIA/TIA-568 100-ohm (100m)		Alternative A mode	

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EN50155 PoE Managed Ethernet Switches



Power	max. 46.6W exclude PoE load	Login Security	Supports IEEE802.1X Authentication/RADIUS
Consumption Dimensions	IP21 model: Aluminum case	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
	390mm(W)x195mm(H)x105.3mm(D)	Network Security	Support 10 IP addresses that have permission
Weight	3.8kgs	Network Security	to access the switch management and to
Installation	Wall Mount Design		prevent unauthorized intruder.
EMI & EMS	FCC Part 15 Class A		
	IEC/EN61000-6-2		802.1X access control for port based and MAC
	IEC/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		TACACS+ for Authentication
	CE EN61000-4-4 (EFT) Level 3	IGMP	Support IGMP snooping v1,v2,v3; Supports
	CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3		IGMP static route; 1024 multicast groups; IGMP
	CE EN61000-4-8 (Magnetic field) Level 3		router port ; IGMP query; GMRP
Marifiantiana	EN50155/EN50121-3-2/EN50121-4;	MLD Snooping	Support IPv6 Multicast stream
Verifications	EN45545-2 R13/R22/R23/R24/R25	Static multicast	Static multicast forwarding forward reversed
	(EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1	forwarding	IGMP flow with multicast packets binding with
	& 2) Fire & Smoke verification		ports for IP surveillance application
Stability Testing	EN61373 (Shock and Vibration)	Bandwidth	support ingress packet filter and egress* packet
MTBF	336,100 Hrs. (standards: IEC 62380)	Control	limit. The egress* rate control supports all of packet
Warranty	5 years		type.
Bypass**	Up to two pairs Bypass module on 1G/2.5G Copper ports to pass to next switch in case of		Ingress filter packet type combination rules are
	power failure and CPU hang		Broadcast/Multicast/Flooded Unicast packet,
Software S	Specification		Broadcast/Multicast packet, Broadcast packet
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI		only and all types of packet. The packet filter rate can be set an accurate
SNMP MIB	RFC 1213 MIBII		value through the pull-down menu for the
	RFC 1158 MIB		ingress packet filter and the egress* packet limit.
	RFC 1157 SNMP MIB	Flow Control	Supports Flow Control for Full-duplex and Back
	RFC 1493 Bridge MIB*		Pressure for Half-duplex
	RFC 1573 IF MIB	System Log	Supports System log record and remote system log server
	RFC 2674 Q-Bridge MIB*	Protection	 Miss-wiring avoidance
	RFC 2819 RMON MIB	1101001011	 Node failure protection
	Private MIB		Loop protection
PoE Management	PoE Detection to check if PD hangs then restart the PD	SNMP Trap	Up to 5 trap stations; trap types including:
Management	PoE scheduling		Device cold start
Per Port PoE	On/ Off, voltage, current, watts, temperature		Authorization failure
Status			Port link up/link down
ITU G.8032	Support ITU G.8032 for Ring protection in less		 DI/DO open/close Turada su alvanas (IT) laria s)
	than 20ms for self-heal recovery (single ring		Typology change(ITU ring) Power failure
	enhanced mode)		Environmental abnormal
	Support basic single ring & enhanced ring	PXE	PXE to verify switch firmware with the latest or
	Enhanced G.8032 ring configuration with ease		certain version
	Cover multicast & data packets protection	DHCP	Provide DHCP Client/ DHCP Server/DHCP
User friendly UI	Auto topology drawing		Option 82/Port based DHCP ; DHCP Option 66 ;
	 Topology demo Complete CLI for professional setting 		basic IPv6 DHCP server
Port Trunk with	J	Mac based	Assign IP address by Mac in DHCP network
LACP	LACP Port Trunk: 8 Trunk groups	DHCP Server	
LLDP	Supports LLDP to allow switch to advise its	DNS	Provide DNS client feature and can set Primary
	identification and capability on the LAN	NTP/SNTP	and Secondary DNS server Supports NTP/SNTP to synchronize system
CDP	Cisco Discovery Protocol for topology mapping		clock in Internet
Enhanced Environmental	System status for actual input voltage, current, total power load and ambient temperature to be	Firmware Update	Supports TFTP firmware update, TFTP backup
Environmental Monitoring	shown in GUI and sent alerting if any abnormal		and restore; HTTP firmware upgrade
	status	Configuration	Supports editable configuration file for system
VLAN	Port Based VLAN	upload and download	quick installation; Support factory reset ping to restore all settings back to factory default
	IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID	Enhanced Storm	prevents traffic on a LAN from being disrupted
	(Up to 4K, VLAN ID can be assigned from 1 to	Control*	by a broadcast, multicast, or unicast storm on
	4096) GVRP, QinQ, QoS	Control	one of the physical interfaces
	Protocol based VLAN	ECN	Complies with IEC 61375-3-4 (ECN) standard.
	IPv4 Subnet based VLAN		The support of Ethernet Consist Network allows
· · ·	Supports IEEE802.1d Spanning Tree and		interconnection between end devices located in
Spanning Tree	IEEE802.1w Rapid Spanning Tree, IEEE802.1s		single consist of train and interoperability with
Spanning Tree	Multiple Spanning Tree 8 MSTI	Optional	IEC61375-2-5 (TBN). Lantech OS4 are optional upgradable to L3 Lite/
			Landon 004 are optional upgradable to L3 Lite/
Quality of	The quality of service determined by port, Tag		L3* or ETBN communication protocols for future
		L3Lite/L3*/ETBN	L3* or ETBN communication protocols for future expansion. The optional L3Lite includes editable
Quality of	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated	L3Lite/L3*/ETBN	expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter-
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP	L3Lite/L3*/ETBN	expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing. Optional ETBN complies with
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port	L3Lite/L3*/ETBN	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
Quality of Service Class of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP Support IEEE802.1p class of service, per port provides 8 priority queues	L3Lite/L3*/ETBN	expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing. Optional ETBN complies with

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Support Ping, ARP table and DDM information Dual Image

Support dual image firmware function

ORDERING INFORMATION

All model packages include M12 caps. For optional bypass add -BT (one pair); -BBT (two pairs) to end of model names. For Coating add -C to end of model names.

- TPGS-R5608MGT-8-21-WVI......P/N: 8361-467 8 10/100/1000T + 6 1G/2.5G Copper M12 X-coded ; w/8 PoE at/af EN50155 OS4 Managed PoE Ethernet Switch; 16.8V~137.5VDC dual input ; -40C~70C/-40F~158F ; IP21 housing w/ galvanic isolation
- TPGS-R5608MGT-10-21-WVI......P/N: 8361-4671 8 10/100/1000T + 6 1G/2.5G Copper M12 X-coded ; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed PoE Ethernet Switch; 16.8V~137.5VDC dual input ; -40C~70C/-40F~158F ; IP21 housing w/ galvanic isolation
- TPGS-R5608MGT-12-21-WVI......P/N: 8361-4672 8 10/100/1000T + 6 1G/2.5G Copper M12 X-coded ; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed PoE Ethernet Switch; 16.8V~137.5VDC dual input ; -40C~70C/-40F~158F ; IP21 housing w/ galvanic isolation

OPTIONAL ACCESSORIES

Software package

- OS4 – L3L P/N: 9000-110
 - OS 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 (please check Lantech software data sheet for details)
- OS4 L3* P/N: 9000-112 OS4 software platform with Layer 3 functions (please check Lantech software data sheet for details) OS4 - R-NAT P/N: 9000-113
- OS4 software platform with R-NAT function (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
Others	
USB adapter	8pin M12 (Male) A-coded 180 degree M12 to USB 2.0 interface adapter, 8cm

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