

TPGS-L5216MGT

16 10/100/1000T + 2 1G/2.5G Copper w/8/10/16 PoE at/af EN50155 OS3

Managed Ethernet Switch w/ Enhanced G.8032 Ring; PXE; WVI input

- Total 16 Port 10/100/1000T + 2 1G/2.5G Copper Ethernet Switch w/8/16 or 10 (incl.8 copper + 2 uplink 1G/2.5G 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
- 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
- Optional L3Lite or IEEE61375-2-5 TBN features to be upgradable
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- Optional smart bypass on 1G/2.5G Copper ports in case of power failure, CPU hang (one pair)
- IP54 Aluminum housing for best heat dissipation and preventing moist ingress
- USB port to upload & download the configuration file
- Inrush current protection
- 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 :-40~70C/-40~158F





















OVERVIEW

Lantech TPGS-L5216MGT is a high performance OS3 (All Gigabit) Ethernet switch with 16 10/100/1000T + 2 1G/2.5G Copper w/8/16 or w/10 (incl.8 copper + 2 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. The 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.

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

Compliant with 802.3af/at standard, the Lantech TPGS-L5216MGT is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. Lantech TPGS-L5216MGT 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.

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.

Miss-wiring avoidance, Node failure protection, Loop protection

The TPGS-L5216MGT is also embedded with 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 TPGS-L5216MGT is able to send 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. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.



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

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. 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-L5216MGT much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

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.

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

Lantech TPGS-L5216MGT 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.

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 the configuration

The configuration file of Lantech TPGS-L5216MGT can be exported and edited with word processor for the following switches to configure 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.

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

Event log & message; 2 DI + 2DO

In case of event, the TPGS-L5216MGT is able to send an email** 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 outside alarm and switch will send alert information to IP network with email and traps.

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 and email** when abnormal.

Dual WVI input with max PoE budget and Inrush current protection

The TPGS-L5216MGT 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 $Vin \ge 36V$) and/or a voltage which can be maximal 1,5 Un nominal voltage for more than 1000 consecutive ms (one

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

Optional smart bypass protection on dual 1G/2.5G copper 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 hang. (-BT model)

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

TPGS-L5216MGT passed tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke, EN50155 verification, the TPGS-L5216MGT is best switch for railway on-board/track side, vehicle and mining applications. For more usage flexibilities, TPGS-L5216MGT supports wide operating temperature from -40°C to 70°C. (85°C operation for 10min.)



FEATURES & BENEFITS

- 16 10/100/1000T + 2 1G/2.5G Copper Ethernet Switch w/8/16 or 10 (incl.8 copper + 2 uplink 1G/2.5G copper) PoE 802.3af/at ports (Total 18 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): 42Gbps
- 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
 - 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
- 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

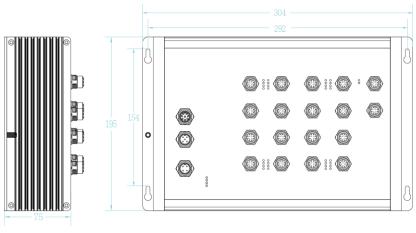
alarm support

Security

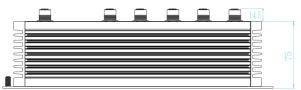
- SSL/SSH v2/INGRESS ACL L2/L3
- MAC address table: MAC address entries/Filter/static MAC-Port binding
- Remote Admin: IP address security management to prevent unauthorized intruder.
- · TACACS+
- Login Security: IEEE802.1X/RADIUS
- HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- IGMP router port for multicast protection
- IGMPv1,v2,v3 with Query mode for multi media
- Dual image firmware support
- MLD Snooping for IPv6 Multicast stream
- Supports 2DI/2DO (Digital Input/Digital Output)
- Factory reset pin to restore setting to factory default
- Watchdog design to auto reboot switch when CPU is found dead
- Enhanced environmental monitoring for system actual input voltage, current, ambient temperature and total power load
- Subnet VLAN and protocol VLAN
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
 - USB port for upload/download the configuration file
- TFTP/HTTP firmware upgrade
- Wide operation temperature: -40C~70C/-40F~158F (85°C operation for 10min.)
- Inrush current protection
- Optional smart bypass (One pair) (-BT model)
- 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
- EN45545-2 Fire & Smoke, EN50155 and EN61373
 shock/vibration verification
- IP54 aluminum housing with wall mount design



DIMENSIONS (unit=mm)







SPECIFICATION

Hardware Specification		
Standards	IEEE802.3 10Base-T Ethernet	
	IEEE802.3u 100Base-TX	
	IEEE802.3ab 1000Base-T	
	IEEE802.3z Gigabit fiber	
	IEEE802.3x Flow Control and Back Pressure	
	IEEE802.3ad Port trunk with LACP	
	IEEE802.1d Spanning Tree	
	IEEE802.1w Rapid Spanning Tree	
	IEEE802.1s Multiple Spanning Tree	
	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	
Switch	Back-plane (Switching Fabric): 42Gbps	
Architecture		
Mac Address	16K MAC address table	
Jumbo frame	10KB	
Connectors	10/100/1000T: 16 x M12 8-pole X-coded with	
	Auto MDI/MDI function	
	1G/2.5G Copper: 2 x M12 8-pole X-coded with	
	Auto MDI/MDI function	
	Power Input connector: 1 x M12 4-pole A-coded	
	Reset/Console/USB: 1 x M12 8-pole A-coded	
	DIDO: 1 x M12 5-pole A-coded	
Network Cable	10Base-T: 2-pair STP Cat. 3, 4, 5/ 5E/ 6 cable	
	EIA/TIA-568 100-ohm (100m)	
	100Base-TX: 2-pair STP Cat. 5/ 5E/ 6 cable;	
	EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair STP Cat5E/6 cable	
LED		
LED	Per unit: Power 1 (Green), Power 2 (Green),	
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)	
LED	Per unit: Power 1 (Green), Power 2 (Green),	
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)	
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity	
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green)	
LED DI/DO	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G copper: Link/Act (Yellow)	
	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G copper: Link/Act (Yellow) PoE: Link/Act (Green)	
	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G copper: Link/Act (Yellow) POE: Link/Act (Green) 2 Digital Input (DI):	
	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G copper: Link/Act (Yellow) PoE: Link/Act (Green) 2 Digital Input (DI): Level 0: -30~2V / Level 1: 10~30V	

	200mA
Operating	5% ~ 95% (Non-condensing)
Humidity	
Operating	-40°C~70°C / -40°F~158°F (85°C operation for
Temperature	10min.)
Storage	-40°C~85°C / -40°F~185°F
Temperature	
Power Supply	Dual DC input, 16.8VDC~137.5VDC
PoE Budget	Input Range Power Input PoE Budget
	16.8~27VDC Dual Power Input 80W
	28~137.5VDC Single Power Input 80W
PoE pin	M12 port #1~#8/16 (-8/-16 model); #17~#18 (-
assignment	10 model); support IEEE 802.3at/af End-point,
assignment	Alternative A mode
	End-point. Per port provides up to 30W
	10/100/1000T
	1:TXD1+ 5:BID4+ 2:TXD1- 6:BID4- 3:RXD2+ 7:BID3- 4:RXD2- 8:BID3+
Power Consumption	Max. 39.1W (exclude PoE load)
Case Dimension	IP54 model: Aluminum case
	304mm(W)x195mm(H)x89.5mm(D)
Weight	1.8kqs
Installation	Wall Mount Design
	FCC Part 15 Class A,
EMI & EMS	IEC/EN61000-6-2
	CE EN55032 Class A
	CE EN55024: 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 verification EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke verification



Stability Testing	EN61373 (Shock and Vibration)
MTBF	512,408.2hrs (IEC 62380 standards)
Warranty	5 years
Bypass**	One pair Bypass module on 1G/2.5G Copper 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 Q-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)
	Support various ring/chain topologies
	Includes basic single ring, enhanced ring
	Cover multicast & data packets protection
PoE Management	PoE Detection to check if PD hangs then restart the PD
Wanagement	PoE scheduling
Per Port PoE	On/ Off, voltage, current, watts, temperature
Status	
User friendly UI	Auto topology drawingTopology 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
EED!	identification and capability on the LAN
CDP	Cisco Discovery Protocol for topology mapping
Enhanced Environmental	System status for actual input voltage, current, total power load and ambient temperature to be
Environmental Monitoring	shown in GUI and send alerting if any abnormal
, and the second	status
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
	Protocol based VLAN IPv4 Subnet based VLAN
Spanning Tree	Supports IEEE802.1d Spanning Tree and
	IEEE802.1w Rapid Spanning Tree, IEEE802.1s
Overline of	Multiple Spanning Tree 8 MSTI
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
Remote Admin	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/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
med oncoping	

IGMP	Support IGMP snooping v1,v2,v3; Supports
	IGMP static forwarding; 1024 multicast groups;
	IGMP router port ; IGMP query; GMRP
Static multicast	Static multicast forwarding forward reversed
forwarding	IGMP flow with multicast packets binding with
Bandwidth	ports for IP surveillance application 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
1 low Collinoi	Pressure for Half-duplex
System Log	Supports System log record and remote system
	log server
Protection	 Miss-wiring avoidance Node failure protection
	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
1 12	certain version
DHCP	Provide DHCP Client/ DHCP Server/DHCP
	Option 82/Port based DHCP; DHCP Option66;
Markand	basic IPv6 DHCP server
Mac based	Assign IP address by Mac that can include dumb switch in DHCP network
DHCP Server DNS	Provide DNS client feature and can set Primary
2110	and Secondary DNS server.
NTP/SNTP	Supports NTP/SNTP to synchronize system
	clock in Internet
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.
LOIV	The support of Ethernet Consist Network allows
	interconnection between end devices located in
	single consist of train and interoperability with
Optional	IEC61375-2-5 (TBN). 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.
	Detail SPEC upon request.
Firmware Update	Supports TFTP firmware update, TFTP backup
Configuration	and restore; HTTP firmware upgrade Supports editable configuration file for system
upload and	quick installation; Support factory reset pin to
download	restore all settings back to factory default
Diagnostic	Support Ping, ARP table and DDM information
Dual Image	Support dual image firmware function
Firmware	
	*Euturo rologeo

*Future release **Optional



ORDERING INFORMATION

All model packages include M12 caps and wall mount bracket. All standard models are non-coating, optional coating models are available with –C model name; for optional bypass add –BT (one pair) to end of model name.

■ TPGS-L5216MGT-8-54-WVI......P/N:8361-470

16 10/100/1000T + 2 1G/2.5G Copper M12 X-coded w/8 PoE at/af EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; PoE budget 80W; IP54 housing w/ galvanic isolation; -40°C to 70°C

■ TPGS-L5216MGT-10-54-WVI......P/N:8361-4701

16 10/100/1000T + 2 1G/2.5G Copper M12 X-coded w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; PoE budget 80W; IP54 housing w/ galvanic isolation; -40°C to 70°C

■ TPGS-L5216MGT-16-54-WVI......P/N:8361-4702

16 10/100/1000T + 2 1G/2.5G Copper M12 X-coded w/16 PoE at/af EN50155 OS3 Managed Ethernet Switch; 16.8V~137.5VDC dual input; PoE budget 80W; IP54 housing w/ galvanic isolation; -40°C to 70°C

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
Others

Ullers

■ USB adapter 8pin M12 (Male) A-coded 180 degree M12 to USB 2.0 interface adapter, 8cm

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