

TPES-L6216XT

16 10/100TX + 2 10G Copper with 8/10/16 PoE EN50155 OS3

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

- Total 16 Port 10/100TX + 2 1G/2.5G/5G/10G Copper Ethernet Switch w/10 (incl.8 copper + 2 uplink 10GT copper) or 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
- 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
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- Optional smart bypass 10GigaT ports in case of power failure, CPU hang (one pair)
- IP54 aluminum enclosure
- Inrush current protection
- 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 factory default setting
- Wide range operation temperature :-40~70C/-40~158F



OVERVIEW

Lantech TPES-L6216XT is a high performance OS3 Ethernet switch with 16 10/100TX + 2 1G/2.5G/5G/10G Copper w/8/16 or w/10 (incl.8 copper + 2 uplink 10GT 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 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 TPES-L6216XT is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. Lantech TPES-L6216XT 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 TPES-L6216XT 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 misswiring, Lantech TPES-L6216XT 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 TPES-L6216XT 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 TPES-L6216XT 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.

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.

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 configuration

The configuration file of Lantech TPES-L6216XT 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

TPES-L6216XT 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 TPES-L6216XT 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 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 dual 10G 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

TPES-L6216XT passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, the TPES-L6216XT is best switch for railway on-board/track side, vehicle and mining applications. For more usage flexibilities, TPES-L6216XT supports wide operating temperature from -40°C to 70°C. (85°C operation for 10min.)



FEATURES & BENEFITS

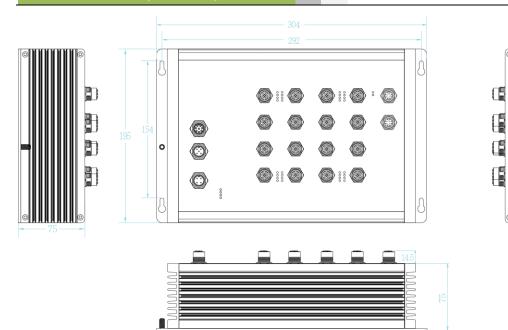
- 16 10/100TX D-coded + 2 1G/2.5G/5G/10G Copper X-coded Ethernet Switch w/8/16 or 10 (incl.8 copper + 2 uplink 10GT copper) PoE 802.3af/at ports (Total 18 Ports Switch) to feed power up to 30W for active mode operation
- Dual WVI input (16.8V~137.5VDC) for PoE budget 80W
- Galvanic isolation from power input/Ethernet ports to system 1.5KV
- PoE management including PoE detection and scheduling for PD (power devices)
- Back-plane (Switching Fabric): 43.2Gbps
- 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
- 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/DO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation
 - USB port for upload/download the configuration file
- TFTP/HTTP firmware upgrade
- 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
- Inrush current protection
- Wide operation temperature: -40~70C/-40~158F (85°C operation for 10min.)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification
- IP54 aluminum housing with wall mount design



DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware S	pecification	Operating	-40°C~70°C / -40°F~158°F (85°C operation for			
Standards	IEEE802.3 10Base-T Ethernet	Temperature	10min.)			
	IEEE802.3u 100Base-TX	Storage	-40°C~85°C / -40°F~185°F			
	IEEE802.3ab 1000Base-T	Temperature				
	IEEE802.3ak 10Gbase-T	Power Supply	Dual DC input, 16.8VDC~137.5VDC			
	IEEE802.3x Flow Control and Back Pressure	PoE Budget	Maximal			
	IEEE802.3ad Port trunk with LACP		Input Range Power Input PoE			
	IEEE802.1d Spanning Tree		Budget			
	IEEE802.1w Rapid Spanning Tree		16.8~27VDC Dual Power Input 80W			
	IEEE802.1s Multiple Spanning Tree		28~137.5VDC Single Power Input 80W			
	IEEE802.3ad Link Aggregation Control Protocol (LACP)	PoE pin	M12 port #1~#8/16 (-8/-16 model) ; #17~#18 (-			
	IEEE802.1AB Link Layer Discovery Protocol	assignment	10 model) ; support IEEE 802.3at/af End-point ;			
	(LLDP)		Alternative A mode			
	IEEE802.1X User Authentication (Radius)	Power	max. 37.4W exclude PoE load			
	IEEE802.1p Class of Service	Consumption				
	IEEE802.1Q VLAN Tag	Dimensions	IP54 model: Aluminum case			
	IEEE802.3at/af Power over Ethernet		304mm(W)x195mm(H)x89.5mm(D)			
Switch	Back-plane (Switching Fabric): 43.2Gbps	Weight	4.8kgs			
Architecture		Installation	Wall Mount Design			
	16K MAC address table	EMI & EMS	FCC Part 15 Class A			
Jumbo frame	10KB		EN61000-6-2			
	10/100TX: 16 x M12 4-pole D-coded with Auto		EN61000-6-4			
	MDI/MDI-X function		CE EN55032 Class A			
	1G/2.5G/5G/10G Copper: 2x M12 8-pole X-		CE EN55024			
	coded port 17-18					
	Power Input connector: 1 x M12 4-pole Male A-		CE EN61000-4-2 (ESD) Level 3			
			CE EN61000-4-3 (RS) Level 3			
	Reset/Console/USB : 1 x M12 8-pole A-coded		CE EN61000-4-4 (EFT) Level 3			
	DIDO: 1 x M12 5-pole A-coded		CE EN61000-4-5 ED3 (Surge) Level 3			
	1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat6a/7 cable		CE EN61000-4-6 (CS) Level 3			
	Per unit: Power 1 (Green), Power 2 (Green),		CE EN61000-4-8 (Magnetic field) Level 3			
	FAULT (Red); RM(Green)	Verifications	EN50155/EN50121-3-2/EN50121-4;			
			EN45545-2 R13/R22/R23/R24/R25			
	10/100TX Ethernet port: Link/Activity (Green)		(EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1			
	1G/2.5G/5G/10G port: speed (1G/2.5G/5G:		& 2) Fire & Smoke verification			
	Yellow; 10G: Orange)	Stability Testing	EN61373 (Shock and Vibration)			
	PoE : Link/Act (Green)	MTBF	TBC (standards: IEC 62380)			
	2 Digital Input (DI) :	Warranty	5 years			
	Level 0: -30~2V / Level 1: 10~30V	Bypass**	One pair Bypass module on 10GT ports to pass			
	Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC,		to next switch in case of power failure and CPU			
	2 Digital Output(DO): Open collector to 40 VDC, 200mA		fail			
	5% ~ 95% (Non-condensing)	Software S	pecification			
Humidity	ever cover, tor condensing)	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI			
		SNMP MIB	RFC 1213 MIBII			

Datasheet Version 1.4

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	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
	PoE scheduling
Per Port PoE Status	On/ Off, voltage, current, watts, temperature
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
	identification and capability on the LAN
CDP	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	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
Quality 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
Login Sogurity	prevent unauthorized intruder Supports IEEE802.1X Authentication/RADIUS
	Supports ILLL002. IX Authentication/RADIUS
Login Security Port Mirror	Support 3 mirroring types: "RX_TX and Both
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
Port Mirror	packet"
	packet" Support 10 IP addresses that have permission
Port Mirror	packet" Support 10 IP addresses that have permission to access the switch management and to
Port Mirror	packet" Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Port Mirror	packet" 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
Port Mirror	packet" 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
Port Mirror	packet" 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
Port Mirror	packet" 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
Port Mirror	packet" 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
Port Mirror Network Security	packet" 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
Port Mirror Network Security MLD Snooping	packet" 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 Support IPv6 Multicast stream
Port Mirror Network Security	packet" 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 Support IPv6 Multicast stream Support IGMP snooping v1,v2,v3; Supports
Port Mirror Network Security MLD Snooping	packet" 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 Support IPv6 Multicast stream

tatic multicast	Static multicast forwarding forward reversed
orwarding	IGMP flow with multicast packets binding with
	ports for IP surveillance application
andwidth control	Support ingress packet filter and egress* packet limit. The egress* rate control supports all of packet type. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet, only and all types of packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter and the egress* packet limit.
low Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
ystem Log	Supports System log record and remote system log server
rotection	 Miss-wiring avoidance Node failure protection Loop protection
NMP 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
	Environmental abnormal
XE	PXE to verify switch firmware with the latest or certain version
НСР	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP ; DHCP Option 66 ; basic IPv6 DHCP server
lac based	Assign IP address by Mac in DHCP network
HCP Server	Provide DNS client feature and can set Primary
	and Secondary DNS server
ITP/SNTP	Supports NTP/SNTP to synchronize system clock in Internet
irmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
onfiguration	Supports editable configuration file for system
pload and ownload	quick installation; Support factory reset ping to restore all settings back to factory default
nhanced Storm	prevents traffic on a LAN from being disrupted
ontrol*	by a broadcast, multicast, or unicast storm on
	one of the physical interfaces
CN	Complies 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).
ptional	Lantech OS3 are optional upgradable to L3 Lite/
3Lite/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.
liagnostic	Support Ping, ARP table and DDM information
ual Image	Support dual image firmware function
irmware	

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*Future release **Optional



ORDERING INFORMATION

All model packages include M12 caps. For coating add –C to model name ; for optional bypass add –BT (one pair) to end of model names.

TPES-L6216XT-8-54-WVI......P/N: 8361-532

16 10/100TX + 2 10G Copper M12 X-coded w/8 PoE at/af EN50155 OS3 Managed PoE Ethernet Switch ; 16.8V~137.5VDC dual input ; -40~70C/-40~158F ; IP54 housing w/ galvanic isolation

TPES-L6216XT-10-54-WVI......P/N: 8361-5322
 16 10/100TX + 2 10G Copper M12 X-coded w/10 PoE at/af incl.2 10GT EN50155 OS3 Managed PoE Ethernet Switch ;
 16.8V~137.5VDC dual input ; -40~70C/-40~158F ; IP54 housing w/ galvanic isolation

OPTIONAL ACCESSORIES

Software package

OS3 – L3L..... P/N: 9000-114

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

USB adapter

Connector 4 pin M12 (Female) A-coded 180 degree crimp type connector for power supply ECONM12-04A(F)-C-180 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 ECONM12-04D(M)-C-180 4 pin M12 (Male) D-coded 180 degree crimp type connector for data 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 ECAB124030MJS 4 pin M12 (Male) D-coded 180 degree RJ45 STP cable for data, 300cm Others

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

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