

T(P)ES-5416T-

16 10/100TX + 4 GigaT X-coded L2+ (8/16 PoE at/af) EN50155 Managed

Ethernet Switch w/Enhanced G.8032 Ring

- EN50155/61373/45545-2 verification
- IEEE802.3at/af up to 30W per port; PoE management incl. detection and scheduling (For PoE Model)
- Optional 24V input can boost to 54V output PoE max. 120W; optional WV input supports PoE output max. 120W (For PoE Model)
- Optional bypass in case of power failure, watchdog hang (BT models)



single ring. Supports auto mode, enhanced mode, train mode, multi-VLAN and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI /RSTP

Miss-wiring avoidance & node failure protection

Enhanced G.8032 ring protection < 20ms for

- 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, QoS by VLAN, SSH v2/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+**, QinQ
- User friendly UI, including auto topology drawing; Complete CLI
- Environmental Monitoring for temp., input voltage, current & PoE total load
- Protocol based VLAN; IPv4 Subnet based VLAN
- N-key configurator** for upgrading, auto/editable configuration back up and restoration without computer; good for multiple switches



OVERVIEW

Lantech T(P)ES-5416T (IP67/IP54) is a high performance L2+ (Gigabit uplink) EN50155 Ethernet switch with 16 10/100TX + 4 10/100/1000T (total 20 ports) (w/8/16 PoE 802.3af/at) ports by M12 provides L2 wire speed and advanced security function for network aggregation deployment.

It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN mode with easy configuration. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+**, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ are supported and also required in large network.

It also supports Cisco Discovery Protocol (CDP) for Ciscoworks to detect the switch info and show on L2 map topology.

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. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Basic IPv6 DHCP service can be supported.

Wide input range model (WV) w/maximum PoE budget

The Lantech T(P)ES-5416T is designed with dual power input ranges from 16.8~137.5VDC. The WV model can accept dual 16.8~137.5VDC to feed 54V PoE to provide PoE budget max 120W. 24V model can accept dual 9~56VDC to feed 54V PoE to provide PoE budget max. 120W. (for PoE model) Featured with relay contact alarm function, the T(P)ES-5416T (IP67/IP54) is able to connect with alarm system in case of power failure or port disconnection events.

User friendly GUI, Auto topology drawing

The user-friendly UI, innovative auto topology drawing and topology demo makes T(P)ES-5416T (IP67/IP54) much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 16 MSTI MSTP; MRP ring

Lantech T(P)ES-5416T (IP67/IP54) 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 double ring, multi-chain (under enhanced ring), train ring, basic ring multiple-VLAN ring and auto-ring by easy setup than others. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in one step. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 16 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 OS1 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).

QoS by VLAN for legacy device

QoS by VLAN can allow switch to tag QoS by VLAN regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a 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.

PoE +, Advanced PoE management

Lantech T(P)ES-5416T (IP67/IP54) supports IEEE802.3at/af standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, High power wireless AP etc. The advanced PoE management includes PoE detection and scheduling besides the regular PoE per port status. 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. Per port PoE status can remotely On/Off the power and display information of voltage, current, watt and PoE temperature. (For PoE Model)

Node failure protection, Miss-wiring alert, Loop protection

The T(P)ES-5416T (IP67/IP54) also embedded 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 T(P)ES-5416T (IP67/IP54) is able to alert with the LED indicator and send out an email** or traps. 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.

Optional hardware bypass on Giga Copper ports

The optional hardware bypass function provides redundant GigaT connection when power or switch fails in a ring or bus structure. The bypass replay is set to bypass the switch to the next one when power is off in order to protect the network from crashing. Lantech bypass caters to remain in bypass mode until the switch is completely booting up when power is back to avoid another network lost. The bypass is also activated when detecting the CPU watchdog is ON.

Editable configuration file; Optional N key auto backup, exported text file

The configuration file can also be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The built-in watchdog design can automatically reboot the switch when CPU is found dead. The optional N-key configurator offers firmware upgrade, auto/editable configuration back up and restoration without computer by adjusting the DIP switch.

Event email** and trap; 1DI+1DO

In case of event alarm, the T(P)ES-5416T (IP67/IP54) is able to send an email** to pre-define addresses as well as SNMP Traps out immediately. It provides 1DI and 1DO 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 alarm while sending alert information to IP network with email and traps.

Built-in environmental monitoring

The built-in environmental monitoring can detect switch total PoE load, overall temperature, voltage, total PoE load and current where can send the SNMP traps and email** when abnormal.

EN50155, EN50121, EN61373 & EN45545 verification; High ESD protection

Lantech T(P)ES-5416T (IP67/IP54) features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The T(P)ES-5416T (IP67/IP54) is designed to meet with critical network environment with IP67/IP54 aluminum enclosure and M12 connectors for water proof. With EN45545-2 Fire & Smoke, and EN50155 & EN61373 verification, the T(P)ES-5416T (IP67/IP54) is best for railway in train/track side, vehicle and mining applications. For more usage flexibilities, T(P)ES-5416T (IP67/IP54) supports wide operating temperature from -40°C to 75°C.

T(P)ES-5416T (IP67/IP54) also provides $\pm 2000V$ EFT and $\pm 6000V$ ESD contact protection, which can reduce unstable situation caused by power line and Ethernet.



FEATURES & BENEFITS

- 16 10/100TX + 4 10/100/1000T (w/8/16 PoE 802.3af/at) ports IP67/IP54 M12 EN50155 Managed Ethernet Switch (Total 20 Ports Switch)
- EN45545-2 Fire & Smoke, EN50155/EN50121 and EN61373 shock/vibration verification
- IEEE802.3at/af feeding power up to 30W per PoE port at 45~56VDC at port 1-8;1-16 (For PoE Model)
- PoE management including PoE detection and scheduling for PD (power devices) (For PoE Model)
- 24V model accepts dual 9~56VDC power input and boost to 54V for PoE 802.3at/af at max 120W (24V input) budget (For PoE Model)
- WV model accepts dual 16.8~137.5VDC power input and feed 54V for PoE at/af at max 120W budget (For PoE Model)
- Back-plane (Switching Fabric): 11.2Gbps
- 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 train ring, enhanced ring, basic ring, auto ring & multiple VLAN ring
 - Enhanced G.8032 ring configuration with ease
 - Auto ring configuration(auto mode) for single
 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 16 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
- 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
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control

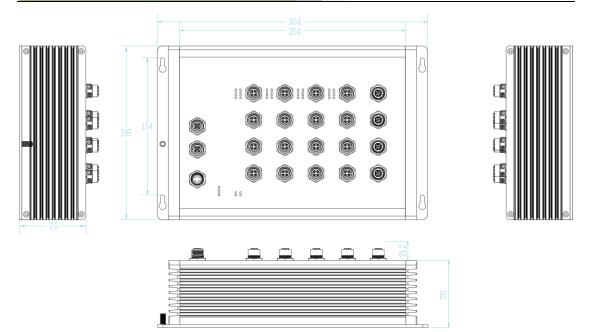
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
- Node failure protection
 - Ensure the switches in a ring to survive after
 power breakout is back
 - The status can be shown in NMS when each switch is back
- TFTP/HTTP firmware upgrade
- System Event Log, SMTP Email** alert and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS/EGRESS ACL L2/L3
 - MAC address table: MAC address
 - entries/Filter/MAC-Port binding
 - IP Security: 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
- Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia;
 GMRP
- Watchdog design to auto reboot switch CPU is found dead
- Built-in environmental monitoring for system input voltage, current, ambient temperature and total PoE load
- Supports 1DI + 1DO (Digital Input/Digital Output)
- IP54/IP67 aluminum housing with DIN rail** and wall mount design
- Diagnostic including Ping / DDM information
- Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN
- MLD Snooping for IPv6 Multicast stream
- Bypass protection**
 - Solid Giga Copper bypass
 - Bypass failed switch caused by power failure of switch to protect network intactness in a bus structure



- Wait until switch is completely booting to swift back to normal mode
- Configuration backup and restoration

- Supports editable configuration file for system quick installation
- N-key** for mass configuration auto-backup,
 - editable restoration and auto firmware upgrade

DIMENSIONS (unit=mm)



.

SPECIFICATION

Hardware	Specification		Power Input connector : 1 x M12 4-pole A-coded
Standards	IEEE 802.3 10Base-T Ethernet		Relay contact : 1 x M12 5-pole A-coded
	IEEE 802.3u 100Base-TX	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6
	IEEE 802.3ab 1000BaseT		cable
	IEEE802.3x Flow Control and Back Pressure		EIA/TIA-568 100-ohm (100m)
	IEEE802.3ad Port trunk with LACP		100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable
	IEEE802.1d Spanning Tree		EIA/TIA-568 100-ohm (100m)
	IEEE802.1w Rapid Spanning Tree	Giga Optical	Multi-mode: 50/125um~62.5/125um
	IEEE802.1s Multiple Spanning Tree	Cable	Single mode: 9/125um
	IEEE 802.3ad Link Aggregation Control Protocol		Available distance: 550m (Multi-mode)/10km
	(LACP)		(Single-mode)
	IEEE 802.1AB Link Layer Discovery Protocol		Wavelength: 850nm (Multi-mode)/1310nm (Single-mode)
	(LLDP)	100M Optical	Multi-mode: 50/125um~62.5/125um
	IEEE 802.1X User Authentication (Radius)	Cable	Single mode: 9/125um
	IEEE802.1p Class of Service		Available distance: 2km (Multi-mode)/10km
	IEEE802.1Q VLAN Tag		(Single-mode)
	IEEE802.3at/af Power over Ethernet (For PoE		Wavelength: 850nm (Multi-mode)/1310nm
	Model)		(Single-mode)
Switch	Back-plane (Switching Fabric): 11.2Gbps	Bypass	Built-in bypass module on uplink Copper ports to
Architecture		Protection**	pass to next switch in case of power failure
Transfer Rate	14,880pps for Ethernet port	LED	Per unit: Power 1 (Green), Power 2 (Green),
	148,800pps for Fast Ethernet port		FAULT (Red)
	1,488,000pps for Gigabit Ethernet port		Ethernet port: Link/Activity (Green), Speed
Mac Address	16K MAC address table		(Green);
Jumbo frame	10KB		R.M. indicator (Green)
Connectors	10/100TX: 16 ports M12 4-pole D-coded with Auto		PoE (Green) (for PoE model)
	MDI/MDI-X function	DI/DO	1 Digital Input (DI) :
	10/100/1000T: 4x ports M12 8-pole X-coded with		Level 0: -30~2V / Level 1: 10~30V
	Auto MDI/MDI-X function		Max. input current:8mA
	RS-232 connector: 1 x M12 5-pole A-coded		1 Digital Output(DO): Open collector to 80 VDC,

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	50mA	
Operating	5% ~ 95% (Non-condensing)	_
Humidity		Pc
Operating	-40°C~75°C / -40°F~167°F	LA
Temperature		LL
Storage	-40°C~85°C / -40°F~185°F	0
Temperature	9~56VDC on 24V model	C
Power Supply	16.8~137.5VDC on WV model	En Mo
PoE Budget	120W	IVIC
(For PoE		VL
Model)		
PoE pin	M12 port # 1~ # 8;1~#16 support IEEE 802.3at/af	
assignment	End-point. Per port provides up to 30W	
(For PoE Model)	10/100TX	
(Niodel)	1 2 1:TX+	
	(4 3) 2:RX+	RS
	• 5-3:TX- 4:RX-	
Power	Max. 13W 24V input	Qu
Consumption	Max. 16W WV input	Se
Dimensions	IP54/IP67 model: Aluminum case	Cla
	304mm(W)x195mm(H)x96.2mm(D)	Se
Weight	1.6kgs	Lo
Installation	DIN Rail** and Wall Mount Design	Po
EMI & EMS	FCC Class A, EN55032 Class A,	
	EN55024, CE EN55011	Ne
	CE EN61000-4-2 (ESD) Level 3	Se
	CE EN61000-4-3 (RS) Level 3	
	CE EN-61000-4-4 (EFT) Level 3	
	CE EN61000-4-5 (Surge) Level 3	
	CE EN61000-4-6 (CS) Level 3	
	CE EN61000-4-8 (Magnetic Field) Level 3	
Stability Testing	EN61373 (Shock and Vibration)	
Verifications &	EN50155/EN50121-3-2/EN50121-4 verification	М
report	EN45545-2 R13/R22/R23/R24/R25 (EN ISO	IG
	4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire	
	& Smoke verification	
MTBF	397,100 hrs (standards: IEC 62380)	Sta
Warranty	5 years	for
	Specification	
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI	Ba
SNMP MIB	RFC 1213 MIBII RFC 1158 MIBII	Co
	RFC 1157 SNMP MIB,	
	RFC 1493 Bridge MIB*	
	RFC 1573 IF MIB	
	Partial RFC 1757 RMON,	
	Private MIB	
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (basic	
	mode)	
	Support various ring/chain topologies	
	Includes train ring, auto ring, basic single ring,	Flo
	enhanced ring, multiple-VLAN ring	
	Enhanced G.8032 ring configuration with ease	Sy
	Cover multicast & data packets protection	
PoE	1. PoE Detection to check if PD hangs then	SN
Management	restart the PD	
(For PoE	2. PoE Scheduling to On/OFF PD upon	Re
Model)	routine time table	
	3. On/ Off, voltage, current, watts,	Pr
	temperature	
User friendly UI	 Auto topology drawing Topology drawo 	
	 Topology demo Auto configuration for G.8032(auto 	SN

	mode) for single ringComplete CLI for professional setting
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups
LLDP	Supports LLDP to allow switch to advise its
	identification and capability on the LAN
CDP	Cisco Discovery Protocol for topology mapping
Environmental	System status for input voltage, current, ambient
Monitoring	temperature and total PoE load to be 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
	Protocol based VLAN; IPv4 Subnet based VLAN
RSTP/MSTP	Supports IEEE802.1d Spanning Tree and
	IEEE802.1w Rapid Spanning Tree, IEEE802.1s
	Multiple Spanning Tree 16 MSTI
Quality of	The quality of service determined by port / CoS /
Service	ToS / VLAN / 61375-3-4
Class of	Support IEEE802.1p class of service, per port
Service	provides 8 priority queues
Login Security Port Mirror	Supports IEEE802.1X Authentication/RADIUS
	Support 3 mirroring types: "RX, TX and Both packet"
Network	Support 10 IP addresses that have permission to
Security	access the switch management and to prevent
	unauthorized intruder.
	802.1X access control for port based and MAC
	based authentication/MAC-Port binding
	Ingress/Egress 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
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP
	static route; 1024 multicast groups; IGMP router
	port ; IGMP query; GMRP
Static multicast	Static multicast forwarding forward reversed IGMP
forwarding	flow with multicast packets binding with ports for
Bandwidth	IP surveillance application
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.
Flow Control	Supports Flow Control for Full-duplex and Back
	Pressure for Half-duplex
System Log	Supports System log record and remote system
CMTD	log server
SMTP	Supports SMTP Server and 8 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown,
	power fail and alarm.
	Alarm Relay current carry ability: 1A @ DC24V
Protection	Miss-wiring avoidance
	 Node failure protection
SNMP Trap	 Loop protection Up to 10 trap stations; trap types including:
	Device cold start

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	Authorization failure	
	 Port link up/link down 	
	 DI/DO open/close 	
	 Typology change(ITU ring) 	
	Power failure	
	 Environmental abnormal** 	
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option	
	82/Port based DHCP; DHCP Snooping; DHCP	
	Option 66; Basic IPv6 DHCP server	
Mac based	Assign IP address by Mac	
DHCP Server		
DNS	Provide DNS client feature	
SNTP	Supports SNTP to synchronize system clock in	
	Internet	
Firmware	Supports TFTP firmware update, TFTP backup	

Update	and restore; HTTP firmware upgrade
Diagnostic	Support Ping and DDM information
ECN*	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).
N-Key	RJ45 dongle for firmware upgrade, auto / editable
Configurator**	configuration backup/restoration
Configuration backup & restore	Supports text configuration file for system quick installation
	*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, optional bypass models are available with –BT (Copper bypass) model names.

- TPES-5416T-8-67-24V......P/N: 8361-200
 16 10/100TX w/8 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Ethernet Switch;9~56V input; 40°C to 75°C
- TPES-5416T-8-54-24V......P/N:8361-2001
 16 10/100TX w/8 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP54 L2+ PoE Managed Ethernet Switch; 9~56V input; 40°C to 75°C
- TPES-5416T-16-67-24V......P/N:8361-2002
 16 10/100TX w/16 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Ethernet Switch;9~56V input; -40°C to 75°C
- TPES-5416T-16-54-24V......P/N:8361-2003 16 10/100TX w/16 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP54 L2+ PoE Managed Ethernet Switch; 9~56V input; -40°C to 75°C
- TPES-5416T-8-67-WV......P/N:8361-2004

 16 10/100TX w/8 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Ethernet Switch;16.8~137.5V input; -40°C to 75°C

 TPES-5416T-8-54-WV......P/N:8361-2005
- 16 10/100TX w/8 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP54 L2+ PoE Managed Ethernet Switch; 16.8~137.5V input; -40°C to 75°C
- TPES-5416T-16-67-WV......P/N:8361-2006 16 10/100TX w/16 PoE at/af + 4 10/100/1000T X-coded EN50155 M12 IP67 L2+ PoE Managed Ethernet Switch; 16.8~137.5V input; -40°C to 75°C
- TES-5416T-67-24V......P/N:8361-2007 (0.000071) - 4.60(000071) - 4.60(00071)
- 16 10/100TX + 4 10/100/1000T X-coded EN50155 M12 IP67 L2+ Managed Ethernet Switch;9~56V input; -40°C to 75°C
 TES-5416T-54-24V......P/N:8361-2008

- 16 10/100TX + 4 10/100/1000T X-coded EN50155 M12 IP54 L2+ Managed Ethernet Switch; 16.8~137.5V input; -40°C to 75°C

OPTIONAL ACCESSORIES

M12 Connector & Cable

ECONM12-4P(F)1.5M CABLE	4 pin M12 (Female) A-coded 90 degree cable for power supply, 150cm
ECAB124030MJS	4 Pin M12 RJ45 Male 3 Meters; STP Cable
ECABM12X83MSTP	8 Pin M12 X-coded RJ45 Male 3 METER, STP CABLE w/ Shielding

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