



OVERVIEW

Lantech IPES-5416DFT-8/16 (IP67/IP54) is a high performance L2+ (Gigabit uplink) switch with 16 10/100TX + 2 10/100/1000T + 2 Dual Speed Fiber w/8(16) PoE 802.3af/at Injectors 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/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.



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

Lantech IPES-5416DFT-8/16 (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.

Various dual power Inputs: 12V model, 72V model and 110V model; High PoE budget

The Lantech IPES-5416DFT-8/16 (IP67/IP54) series is designed with various dual power input at 12/24/48VDC input (12V model), 72V input to feed 54V PoE (72V model) at PoE budget max 80W. The 110V model can accept dual 110V to feed 54V POE at PoE budget max 80W. Featured with relay contact alarm function, the IPES-5416DFT-8/16 (IP67/IP54) is able to connect with alarm system in case of power failure or port disconnection events.

Re-powered ring restoration, Miss-wiring alert, Loop protection

The IPES-5416DFT-8/16 (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 IPES-5416DFT-8/16 (IP67/IP54) is able to alert with the LED indicator and disable ring automatically. Repowered auto ring restore function (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.

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. 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. Optional IPv6 address resolution for DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPES-5416DFT-8/16 (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; Optional MRP ring

Lantech IPES-5416DFT-8/16 (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.

Optional MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

Editable configuration file; InstaView** for mass deployment

Optional N key auto backup, Exported text file

The configuration file of Lantech IPES-5416DFT-8/16 (IP67/IP54) can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The optional N-key configurator offers firmware upgrade, auto/editable configuration back up and restoration without computer by adjusting the DIP switch. Built-in watchdog design can automatically reboot the switch when CPU is found dead

With optional InstaView, the configuration files can be mass backup, mass-editable deployed and auto upgrading firmware in batch make maintenance easy

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 QinQ** and GVRP** supported

It supports the QinQ**, QoS QinQ**, GVRP** for large VLAN segmentation.

IGMPv3, GMRP**, router port, 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 and static multicast forwarding binding by ports for video surveillance application.

Event log & message; 1 DI + 1 DO

In case of event alarm, the IPES-5416DFT-8/16(IP67/IP54) is able to send an email & SMS** text message to pre-defined 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.

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

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

Lantech IPES-5416DFT-8/16(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 IPES-5416DFT-8/16(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 IPES-5416DFT-8/16(IP67/IP54) is best for railway in train/track side, vehicle and mining applications. For more usage flexibilities, IPES-5416DFT-8/16(IP67/IP54) supports wide operating temperature from -40°C to 75°C.

IPES-5416DFT-8/16(IP67/IP54) also provides ±2000V EFT

FEATURES & BENEFITS

- 16 10/100TX + 2 10/100/1000T + 2 Dual Speed (100/1000M) Fiber w/8(16) PoE 802.3af/at Injectors EN50155 M12 IP67/54 Managed Ethernet Switch (Total 20 Ports Switch)
- EN45545-2 Fire & Smoke, EN50155 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
- PoE management including PoE detection and scheduling for PD (power devices)
- 12V model can accept dual 12V power input and boost to 54V for PoE 802.3at/af max 120W budget (24V input)
- 72V model can accept dual 50.4~90V power input and feed 54V for PoE at/af at max 80W budget
- 110V model can accept dual 43V~137.5V input and feed 54V for PoE at/af at max 80W budget
- 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
 - Provides EFT protection ±2000 VDC for power line.
- Supports ±4000 VDC (Contact) and ±8000 VDC (Air)
 Ethernet ESD 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

and ±6000V ESD contact protection, which can reduce unstable situation caused by power line and Ethernet.

Optional bypass protection

The optional bypass relay 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.

VLAN redundancy with 16 MSTI

- 4K 802.1Q VLAN, Port based VLAN, GVRP**, QinQ**, QoS QinQ**
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech™ InstaView**
- DHCP server / client / DHCP Option 82 relay / DHCP
 Option 82 serve Port based DHCP server; DHCP
 Option 66; IPv6 address resolution for DHCP
 server**
- Mac based DHCP server to assign IP address that includes dumb switches in DHCP network
- Bandwidth Control
 - Ingress packet filter and egress rate limit
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
- Repowered auto ring restore
 - 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/SFTP**/HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade
- System Event Log, SMTP Email alert, SMS** mobile (text) and SNMP Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH/INGRESS/EGRESS ACL L2/L3
 - Port Security: 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

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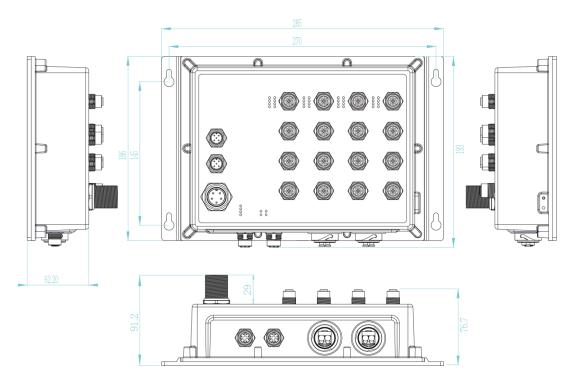


- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode 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)

DIMENSIONS (unit=mm)

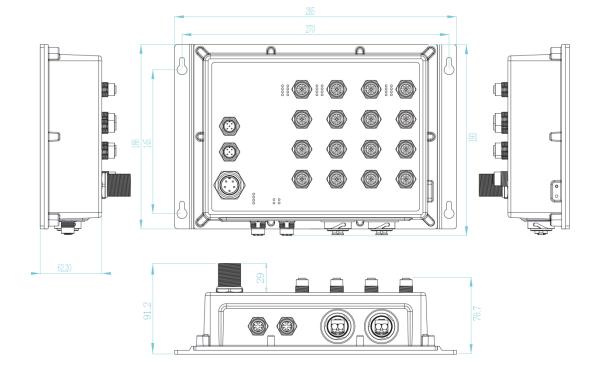
IP67 model (16PoE)

- IP67/IP54 aluminum housing with DIN rail** and wall mount design
- Bypass protection** Bypass failed switch caused by power failure of switch to protect network intactness
- N-key** configurator for firmware upgrade, auto/editable configuration back up and restoration
- 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
 - InstaView** for centralized configuration
 deployment, backup & upgrade

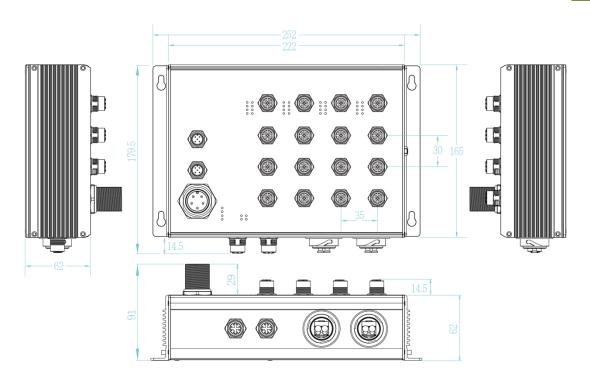


IP54 model (16PoE)

IP54 model (8PoE)

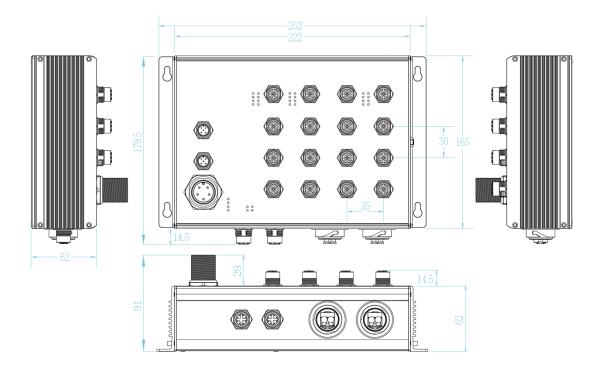


IP67 model (8PoE)









SPECIFICATION

Hardware Specification			cable
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP		EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
	IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP)	Giga Optical Cable	Multi-mode: 50/125um-62.5/125um Single mode: 9/125um Available distance: 0.5km (Multi-mode)/10km (Single-mode) Wavelength: 850nm (Multi-mode)/850nm (Single-mode)
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet	100M Optical Cable	Multi-mode: 50/125um–62.5/125um Single mode: 9/125um Available distance: 2km (Multi-mode)/10km (Single-mode) Wavelength: 850nm (Multi-mode)/850nm (Single-mode)
Switch Architecture Transfer Rate	Back-plane (Switching Fabric): 11.2Gbps 14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red) Ethernet port: Link/Activity (Green), Speed (Green); Optical fiber: Link/Activity (Green) R.M. indicator (Green) PoE (Green)
Mac Address Jumbo frame Connectors	16K MAC address table 16K MAC address table 10KB 10/100TX: 16 x ports M12 4-pole D-coded with Auto MDI/MDI-X function 10/100/1000T: 2 x ports M12 8-pole A-coded with Auto MDI/MDI-X function 100/1000 Dual Speed Fiber: 2 x LC connector for single-mode or multi-mode type fiber cable RS-232 connector: 1 x M12 5-pole A-coded	DI/DO	1 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 1 Digital Output(DO): Open collector to 40 VDC, 200mA
		Operating Humidity	5% ~ 95% (Non-condensing)
		Operating Temperature	-40°C~75°C / -40°F~167°F (72V model: -40°C~60°C / -40°F~140°F)
	Power Input connector : 1 x M23 5-pole A-coded Relay contact : 1 x M12 5-pole A-coded	Storage Temperature	-40°C~85°C / -40°F~185°F
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6	Power Supply	9~56VDC on 12V model

EN50155 PoE Managed Ethernet Switches



	50.4~90VDC on 72V model	
	43~137.5VDC on 110V model with input isolation	Po
PoE Budget	120W for 24V input	LA
PoE pin	80W for 72V/110V Input M12 port # 1~ # 8/16 support IEEE 802.3at/af	LLI
assignment	End-point. Per port provides up to 30W	
Ŭ		CD En
	10/100TX	Mc
	1:TX+ 2:RX+	
	• • 5 3:TX- 4:RX-	VL
Power	Max. 13W 12V~48VDC input	
Consumption	Max. 16W 72VDC/110VDC input	
Dimensions	IP67 model: Aluminum case 285mm(W)x193mm(H)x91.2mm(D)	
	IP54 model: Aluminum case	IP√
	252mm(W)x179.5mm(H)x91mm(D)	Sp
Weight	2.3kgs(IP67); 2kgs (IP54)	
Installation	DIN Rail** and Wall Mount Design	
EMI & EMS	FCC Class A,	Qu Se
	CE EN55022 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3,	
	CE EN61000-4-4, CE EN61000-4-5,	Cla
	CE EN61000-4-6, CE EN61000-4-8,	
	CE EN61000-4-11	Qo
Stability Testing	EN61373 (Shock and Vibration)	
MTBF	427,492 hours	IP
Verifications &	(standards: IEC 62830) EN50155/EN50121-3-2/EN50121-4 verification	
report	EN45545-2 R24/R25 (EN ISO 4589-2, EN ISO	Lo
	5659-2, NF X70-100-1 & 2) Fire & Smoke	Po
	verification	
Safety	EN 60950-1 (Standard model and 110V model)	Ne
Warranty Bypass	5 years Built-in bypass module on uplink ports to pass to	Se
protection**	next switch in case of power failure (BT/BF	
Softwara	model) Specification	
Management SNMP MIB	SNMP v1 v2c, v3/ Web/Telnet/CLI RFC 1215 Traps MIB*,	
	RFC 1213 MIBII	
	RFC 1158 MIBII	IGI
	RFC 1157 SNMP MIB, RFC 1493 Bridge MIB*	
	RFC 1573 IF MIB	
	RFC 2674 VLAN MIB*,	Sta
	Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; Bridge MIB,	for
	LLDP MIB	Ва
	RSTP MIB*	Co
ITU G.8032	Private MIB Support ITU G.8032 v2/2012 for Ring protection	
	in less than 20ms for self-heal recovery (single	
	ring enhanced mode)	
	Support various ring/chain topologies	
	Includes train ring, auto ring, basic single ring,	
	enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease	
	Cover multicast & data packets protection	
PoE	1. PoE Detection to check if PD hangs	Flo
Management	then restart the PD	
	2. PoE Scheduling to On/OFF PD upon	
	routine time table On/ Off, voltage, current, watts, temperature	
User friendly UI	 Auto topology drawing 	
	Topology demo	
	Auto configuration for G.8032(auto	
	mode) for single ring	

	3. Complete CLI for professional setting
ort Trunk with ACP	LACP Port Trunk: 8 Trunk groups
LDP	Supports LLDP to allow switch to advise its identification and capability on the LAN
DP	Cisco Discovery Protocol for topology mapping
nvironmental	System status for total PoE load ,input voltage,
lonitoring	current and ambient temperature to be shown in GUI and sent alerting if any abnormal status
LAN	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 QinQ**, Protocol based VLAN** ; IPv4/IPv6 Subnet based VLAN**
Pv6/4	Present
panning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 16 MSTI
uality of ervice	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
lass of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
oS by VLAN	Tagged QoS by VLAN for all devices in the network
Security	Supports 10 IP addresses that have permission
	to access the switch management and to prevent unauthorized intruder.
ogin Security	Supports IEEE802.1X Authentication/RADIUS
ort Mirror	Support 3 mirroring types: "RX, TX and Both
	packet"
etwork	Support 10 IP addresses that have permission to
ecurity	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 for Management
	HTTPS for secure access to the web interface
	TACACS+* for Authentication
6MP	Support IGMP snooping v1,v2,v3; Supports
	IGMP static route; 1024 multicast groups; IGMP
	router port ; IGMP query; GMRP**
tatic multicast	Static multicast forwarding forward reversed
orwarding	IGMP flow with multicast packets binding with
andwidth	ports for IP surveillance application Support ingress packet filter and egress packet
ontrol	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

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EN50155 PoE Managed Ethernet Switches



System Log	Supports System log record and remote system
	log server
SMTP/Text	Supports SMTP Server and 8 e-mail accounts
SMS**	for receiving event alert; can send SMS** text
	alert via mobile
Relay Alarm	Provides one relay output for port breakdown,
	power fail and alarm.
	Alarm Relay current carry ability: 1A @ DC24V
Protection	Miss-wiring avoidance
	Repowered auto ring restore
	Loop protection
SNMP Trap	Up to 10 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
DHCP	Provide DHCP Client/ DHCP
	Server/DHCP Option 82/Port
	based DHCP; DHCP Option 66;

	IPv6 address resolution for DHCP server**
Mac based	Assign IP address by Mac that can include dum
DHCP Server	switch in DHCP network
DNS	Provide DNS client feature and support Primary
	and Secondary DNS server.
SNTP	Supports SNTP to synchronize system clock in
	Internet
Firmware	Supports TFTP/SFTP** firmware update, TFTP
Update	backup and restore; HTTP firmware upgrade;
	Lantech [™] InstaView ^{**} for multiple upgrade
N-Key	RJ45 dongle for firmware upgrade, auto /
Configurator**	editable configuration backup/restoration
Configuration	Supports text configuration file for system quick
upload and	installation
download	Optional InstaView for mass backup, editing
	configuration and upgrade
*Future release	

**Optional

ORDERING INFOMATION

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/-BF model names

- IPES-5416DFT-8-54-MM-12V.....P/N: 8360-7266 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-8-54-SM-12V.....P/N: 8360-7267 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-8-54-MM-72V.....P/N: 8360-7272 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-8-54-SM-72V.....P/N: 8360-7273 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-8-54-MM-110V.....P/N: 8360-7278 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-8-54-SM-110V......P/N: 8360-7279 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-8-67-MM-12V.....P/N: 8360-724 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-8-67-SM-12V.....P/N: 8360-725 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-8-67-MM-72V......P/N: 8360-732 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-8-67-SM-72V......P/N: 8360-733 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-8-67-MM-110V.....P/N: 8360-749 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-8-67-SM-110V.....P/N: 8360-750 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 8 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-16-54-MM-12V.....P/N: 8360-7242 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet

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Switch: -40°C to 75°C: dual 9~56V input

- IPES-5416DFT-16-54-SM-12V.....P/N: 8360-7243
- 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch: -40°C to 75°C: dual 9~56V input
- IPES-5416DFT-16-54-MM-72V.....P/N: 8360-7244 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-16-54-SM-72V......P/N: 8360-7245 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-16-54-MM-110V......P/N: 8360-7246 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-16-54-SM-110V......P/N: 8360-7247 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- IPES-5416DFT-16-67-MM-12V.....P/N: 8360-7248 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-16-67-SM-12V.....P/N: 8360-7249 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch: -40°C to 75°C; dual 9~56V input
- IPES-5416DFT-16-67-MM-72V.....P/N: 8360-7252 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-16-67-SM-72V.....P/N: 8360-7253 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 60°C; dual 50.4~90V input
- IPES-5416DFT-16-67-MM-110V.....P/N: 8360-7254 16 10/100TX + 2 1000T + 2 100M 2KM / Giga SX 0.5KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch: -40°C to 75°C: dual 43~137.5V input
- IPES-5416DFT-16-67-SM-110V......P/N: 8360-7255 16 10/100TX + 2 1000T + 2 100M 10KM / Giga LX 10KM L2+ 16 PoE at/af up to 30W EN50155 M12 IP54 Managed Ethernet Switch; -40°C to 75°C; dual 43~137.5V input
- N-key Configurator.....P/N: 8850-100 RJ45 connector dongle for firmware upgrade, auto/editable configuration backup and restoration; -20°C to 60°

OPTIONAL ACCESSORIES

M12/M23 Connector & Cable

- ECONM23-5P(F)70CM CABLE
- M23 power cable 90 degree angle, 70cm, 5 pin, Made in Taiwan ECONM23-5P(F)70CM CABLE-C M23 power cable 90 degree angle, 70cm, 5 pin, Made in China
- ECONM12-5P(M)-W-180
- M12 5P(Male) 180 Degree Wire Type Connector (DI/DO)
- ECAB124030MJS CON09000030
- 4 Pin M12 RJ45 Male 3 Meters; STP Cable Fiber optical connector ASSY type

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