

# IES-5408T (IP67/IP43)

# 8 10/100TX + 4 10/100/1000T L2+ Industrial Managed Switch

# w/ enhanced G.8032 Ring & PTP\*\*

- EN50155/61373/45545-2 verification; Optional 72V / 110V input voltage
- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8/16\* MSTI /RSTP



IP67 model

- Support PTP\*\*v2 two-step <1us, relay contact & environmental monitoring
- Miss-wiring avoidance; Repowered auto ring restore (node failure protection)
- IP67/ IP43 housing; User friendly UI, including auto topology drawing; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82 for Port/Vlan based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL



IP43 model

VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, IPv6, SMS

N-key configurator\*\* for upgrading, auto/editable configuration back up and restoration without computer













# **OVERVIEW**

Lantech IES-5408T (IP67/IP43) is a high performance L2+ (Gigabit uplink) switch with 8 10/100TX + 4 10/100/1000T 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 including train coupling ring , enhanced mode for easy configuration and aggregation ring\*, comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ\* (double tag VLAN) which are important features required in train and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and show on L2 map topology.

Lantech IES-5408T (IP67/IP43) features hardware-based PTP\*\* IEEE1588 v2 two-step function which can allow 4 10/100/1000T uplinks to synchronize the network with precise accuracy.

The Lantech IES-5408T (IP67/IP43) is designed with dual power supply at 9.5~56VDC. Optional 72V model can accept 50.4V~90VDC dual input range for high speed train environment. Optional 110V model builds in dual power with input voltage ranging from 43V~137.5V. Featured with relay

contact alarm function, the IES-5408T (IP67/IP43) is able to connect with alarm system in case of power failure or port disconnection events. The IES-5408T (IP67/IP43) also provides 3000V EFT and 6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

The IES-5408T (IP67/IP43) 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 IES-5408T (IP67/IP43) is able to alert with the LED indicator and send out an email, traps or a SMS text. 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. 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 and relay agent function (Port/Vlan based DHCP distribution) can offer the same IP address on port base or vlan base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The built-in DHCP Option 82 server offers the convenience of policy setting on the switch. Mac based DHCP server function



assigns an IP address according to its MAC address to include dumb switches in DHCP network.

Lantech InstaConfig software\*\* provides easy configuration for mass deployment. 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 user friendly UI, innovative auto topology drawing and topology demo makes IES-5408T (IP67/IP43) much easier to get hands-on. The switch also equips the RTC (real time clock) which can keep track of time always. The complete CLI enables professional engineer to configure setting by command line.

Lantech IES-5408T (IP67/IP43) 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 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 RSTP over Vlan for redundant links with 8/16\* MSTI.

The configuration file of Lantech IES-5408T (IP67/IP43) 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.

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.

In case of event alarm, the IES-5408T (IP67/IP43) will

immediately send an email & SMS text message to pre-defined addresses as well as SNMP Traps out. It provides 1DI and 1DO while 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.

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

Lantech IES-5408T (IP67/IP43) 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 IES-5408T (IP67/IP43) is designed to meet with critical network environment with IP67/IP43 aluminum enclosure and M12 connectors for water proof. It passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke, and EN50155 verification, the IES-5408T (IP67/IP43) is best for railway in train/track side, vehicle and mining applications. For more usage flexibilities, IES-5408T (IP67/IP43) supports wide operating temperature from -40°C to 75°C.

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.

### **FEATURES & BENEFITS**

- 8 10/100TX + 4 10/100/1000T Industrial Managed
   IP67/IP43 M12 Switch (Total 12 Ports Switch)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification
- IEEE 1588 PTP\*\* v2 two-step at 4 Giga ports
- N-key\*\* configurator for firmware upgrade, auto/editable configuration back up and restoration
- Back-plane (Switching Fabric): 9.6Gbps
- 16K MAC address table
- 10KB Jumbo frame supported on all ports
- 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& aggregation ring\*
  - Enhanced G.8032 ring configuration with ease
  - Auto ring configuration(auto mode) for single ring
  - Ring covers multicast on different ports
- Train ring for auto coupling topology
- Aggregation ring for ring redundancy and

- $bandwidth\ combination^*$
- Provides EFT protection 3000 VDC for power line.
- Supports 6000 VDC Ethernet ESD protection
- LACP load balancing to distribute the load\*
- Built-in RTC (Real Time Clock) to keep track of time
- 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
- 4K 802.1Q VLAN, Port based VLAN, GVRP\*\*, QinQ\*
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console/ Lantech<sup>TM</sup>
  InstaConfig\*\*/ Lantech<sup>TM</sup> InstaView\*\*
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server for Port/Vlan based DHCP distribution
- 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

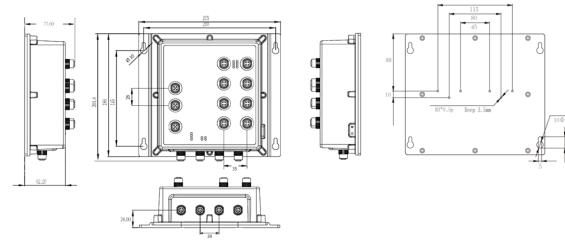


- Relay alarm output system events
- Miss-wiring avoidance
  - LED indicator
  - Email, traps, or SMS notification
- Repowered auto ring restore
  - Ensure the switches in a ring to survive after power breakout is back
  - The status can be shown in NMS when each switch is back
- TFTP/HTTP firmware upgrade; Lantech<sup>TM</sup> InstaConfig\*\* 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.
  - Management access control with priority

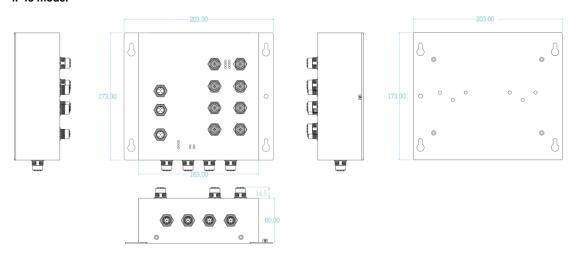
- Login Security: IEEE802.1X/RADIUS
- HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
- Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring and for reversed multicast video flow
- Multicast VLAN registration for metro video\*
- IGMPv1,v2,v3 with Query mode for multimedia; GRMP\*
- Watchdog design to auto reboot switch CPU is found dead
- Built-in environmental monitoring for system input voltage, current, ambient temperature
- Supports DIDO (Digital Input/Digital Output)
- IP67/IP43 aluminum housing with DIN rail\*\* and wall mount design
- Bypass protection\*\* Bypass failed switch caused by power failure of switch to protect network intactness

# **DIMENSIONS** (unit=mm)

#### IP67 model



#### IP43 model





# **SPECIFICATION**

Hardware	Specification		CE EN61000-4-6, CE N61000-4-8
Standards		Stability	EN61373 (Shock and Vibration)
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX	Testing	Ento 1070 (Gliock and Vibration)
	IEEE802.3ab 1000Base-T	MTBF	939,504hrs
	IEEE802.3x Flow Control and Back Pressure	Verifications &	EN50155/EN50121-3-2/EN50121-4 verification
	IEEE802.3ad Port trunk with LACP	report	EN45545-2 R24/R25 (EN ISO 4589-2, EN ISO 5659-2,
	IEEE802.1d Spanning Tree		NF X70-100-1 & 2) Fire & Smoke verification
	IEEE802.1w Rapid Spanning Tree	Warranty	5 years
	IEEE802.1s Multiple Spanning Tree		Specification
	IEEE 802.3ad Link Aggregation Control Protocol	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
	(LACP)	SNMP MIB	RFC 1215 Traps MIB*,
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)		RFC 1213 MIBII
	IEEE 802.1X User Authentication (Radius)		RFC 1158 MIBII
	IEEE802.1p Class of Service		RFC 1157 SNMP MIB*,
0 % 1	IEEE802.1Q VLAN Tag		RFC 1493 Bridge MIB*,
Switch Architecture	Back-plane (Switching Fabric): 9.6Gbps		RFC 1573 IF MIB
Transfer Rate	14 990ppe for Ethornot port		RFC 2674 VLAN MIB,
Hallstel Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port		Partial RFC 1757 RMON,
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber port		RFC 2674 Q-Bridge MIB*; Bridge MIB*,
CPU	Marvell 800Mhz		LLDP MIB*  RSTP MIB*
RAM	256M Byte		Private MIB
Flash	128M Byte	ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less
Mac Address	16K MAC address table	110 0.0002	than 20ms for self-heal recovery (basic mode)
Jumbo frame	10KB on all ports		Support various ring/chain topologies
Connectors	10/100TX: 8 x ports M12 4-pole D-coded with Auto		Includes train ring & aggregation ring*
	MDI/MDI-X function		Enhanced G.8032 ring configuration with ease
	10/100/1000T: 4 x ports M12 8-pole A-coded with Auto		Ring covers multicast on different ports  Train mode for auto coupling ring configuration
	MDI/MDI-X function	PTP** v2	Support hardware-based IEEE1588 PTP**v2, End to
	RS-232 connector: 1 x M12 5-pole A-coded	FIF VZ	End (2-step) and Peer to Peer (2-step) modes in
	Power Input connector: 1 x M12 5-pole A-coded		Transparent Clock, with 4 10/100/1000T
	Relay contact : 1 x M12 5-pole A-coded	User friendly	Auto topology drawing
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable	UI	■ Topology demo
	EIA/TIA-568 100-ohm (100m)		<ul> <li>Auto configuration for G.8032(auto mode) for</li> </ul>
	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		single ring
	EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		■ Complete CLI for professional setting
	EIA/TIA-568 100-ohm (100m)	Port Trunk	LACP Port Trunk: 8 Trunk groups/Maximum 8 trunk
Bypass	High-speed optical switching	with LACP	members
Protection**	Minimal insertion loss (Max 1.6dB as Bypass Mode)		Aggregation ring for ring redundancy and bandwidth combination*
Protocol	CSMA/CD	LLDP	Supports LLDP to allow switch to advise its
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail	223.	identification and capability on the LAN
	(Red)	CDP	Cisco Discovery Protocol for topology mapping
	Ethernet port: Link/Activity (Green), Speed (Green);	Environmental	System status for input voltage, current and ambient
	Optical fiber: Link/Activity (Green)	Monitoring	temperature to be shown in GUI and sent alerting if any
DI/DO	1 Digital Input (DI):		abnormal status
	Level 0: -30~2V / Level 1: 10~30V	VLAN	Port Based VLAN
	Max. input current:8mA		IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to
Ongration	1 Digital Output(DO): Open collector to 40 VDC, 200mA		4K, VLAN ID can be assigned from 1 to 4096.)
Operating Humidity	5% ~ 95% (Non-condensing)		GVRP** (256 Groups)**, QinQ*, QOS QinQ*
Humidity	-40°C-75°C / -40°E, 467°E	IPv6/4	Present
Operating Temperature	-40°C~75°C / -40°F~167°F (72V model: -40°C~60°C / -40°F~140°F)	Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w
Storage	-40°C~85°C / -40°F~185°F		Rapid Spanning Tree, IEEE802.1s Multiple Spanning
Temperature	.5 5 55 57 451 -1051	01:11	The quality of consider determined by part. The and IDv4
Power Supply	Standard model:9.5~56VDC dual input	Quality of	The quality of service determined by port, Tag and IPv4
	72V model: 50.4~90VDC dual input	Service	Type of service, IPv4 Differentiated Services Code Points - DSCP
	110V model: 43~137.5VDC dual input with input	Class of	Support IEEE802.1p class of service, per port provides
	isolation	Service	8 priority queues
Power	Max. 13W 12V~48VDC input	QoS by VLAN	Tagged QoS by VLAN for all devices in the network
Consumption	Max. 16W 72VDC/ 110VDC input	IP Security	Supports 10 IP addresses that have permission to
Case	IP67 model: Aluminum case	n occurry	access the switch management and to prevent
Dimension	215mm(W)x200mm(H)x84.4mm(D)		unauthorized intruder.
	IP43 model: Aluminum case	Login Security	Supports IEEE802.1X Authentication/RADIUS
	203mm(W)x187mm(H)x84.4mm(D)	Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
Weight	1.4kgs (IP67); 1.2kgs(IP43)	Network	Support 10 IP addresses that have permission to
Installation	DIN Rail** and Wall Mount Design	Security	access the switch management and to prevent
EMI & EMS	FCC Class A,		unauthorized intruder.
	CE EN55022 Class A, CE EN55024, CE EN61000-4-2,		802.1X access control for port based and MAC based
	CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5,		authentication/MAC-Port binding
			admentication/WAO-1 off binding



IGMP	Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface TACACS+* for Authentication Support IGMP snooping v1, v2, v3; Supports IGMP static
IGWIF	route; 1024 multicast groups; IGMP router port; IGMP query; GRMP*
Static MAC-Port bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Bandwidth 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.
RTC	Built-in Real Time Clock to keep track of time always
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Supports System log record and remote system log server
SMTP/Text SMS	Supports SMTP Server and 8 e-mail accounts 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)		
	PoE ping failure		
	Power failure		
	Environmental abnormal		
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/		
	DHCP Option 82 server/ Port based&VLAN based		
	DHCP distribution (DHCP relay agent)		
Mac based	Assign IP address by Mac that can include dumb switch		
DHCP Server	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 firmware update, TFTP backup and		
Update	restore; HTTP firmware upgrade; Lantech™		
	InstaConfig** for multiple upgrade		
N-Key	RJ45 dongle for firmware upgrade, auto / editable		
Configurator**	configuration backup/restoration		
Configuration	Supports text configuration file for system quick		
upload and	installation		
download			
IfAlias	Each port allows an alphabetic string of 128-byte		
	assigned as its own unique name via the SNMP or CLI		

<sup>\*</sup>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.

IES-5408T-67......P/N: 8360-714

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 75°C; dual 9.5~56VDC

IES-5408T-43......P/N: 8360-7141

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP43 Switch; -40°C to 75°C; dual 9.5~56VDC

IES-5408T-67-B......P/N: 8361-700

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 75°C; dual 9.5~56VDC w/1 pair bypass

IES-5408T-43-B......P/N: 8361-7001

 $8\ 10/100\text{TX} + 4\ \text{GigaT}\ \text{PTP}^{**}\ \text{L2}^{+}\ \text{Managed Industrial}\ \text{PTP}^{**}\ \text{M12 IP43 Switch; -40°C to }75^{\circ}\text{C; dual }9.5\sim56\text{VDC w/1 pair bypass}$ 

IES-5408T-67-BB......P/N: 8361-701

 $8\ 10/100TX + 4\ GigaT\ PTP^{**}\ L2^*\ Managed\ Industrial\ PTP^{**}\ M12\ IP67\ Switch; -40^{\circ}C\ to\ 75^{\circ}C;\ dual\ 9.5-56VDC\ w/2\ pair\ bypass$ 

IES-5408T-43-BB......P/N: 8361-7011 8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP43 Switch; -40°C to 75°C; dual 9.5~56VDC w/2 pair bypass

IES-5408T-67-72V......P/N: 8360-718

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 60°C; dual 50.4~90VDC IES-5408T-43-72V......P/N: 8360-7181

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP43 Switch; -40°C to 60°C; dual 50.4~90VDC

IES-5408T-67-72V-B......P/N: 8361-702

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 60°C; dual 50.4-90VDC w/1 pair

IES-5408T-43-72V-B......P/N: 8361-7021

 $8\ 10/100TX + 4\ GigaT\ PTP^{**}\ L2^{\dagger}\ Managed\ Industrial\ PTP^{**}\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ M12\ IP43\ Switch; -40^{\circ}C\ to\ 60^{\circ}C;\ dual\ 50.4~90VDC\ w/1\ pair\ w/1\ pair\$ 

IES-5408T-67-72V-BB......P/N: 8361-703

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 60°C; dual 50.4~90VDC w/2 pair

IES-5408T-43-72V-BB......P/N: 8361-7031

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP43 Switch; -40°C to 60°C; dual 50.4-90VDC w/2 pair bypass



■ IES-5408T-67-110V......P/N: 8360-753
8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP67 Switch; -40°C to 60°C; dual 43~137.5VDC

■ IES-5408T-43-110V......P/N: 8360-7531

8 10/100TX + 4 GigaT PTP\*\* L2\* Managed Industrial PTP\*\* M12 IP43 Switch; -40°C to 60°C; dual 43~137.5VDC

■ 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

■ ECON120005PF 5 pin M12 power female connector

■ ECONM12-5P(F)70CM CABLE 5 pin M12 power cable 90 degree angle, 70cm ■ ECAB124030MJS 4 Pin M12 RJ45 Male 3 Meters; STP Cable

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