T(P)ES-0006CA

6 10/100TX (w/4 PoE at/af) Industrial Ethernet Switch

- IEEE802.3at/af up to 30W PoE output (for PoE model)
- Dual power inputs 9~36V (24V model)
- Wide Operating Temperature from -40 °C to 75 °C
- IP54/IP41 Aluminum housing for best heat dissipation and preventing moist ingress
- E-mark certificate for vehicle (24V model)
- ITxPT labeled w/ignition function (24V-IGN model)



















OVERVIEW

Lantech T(P)ES-0006CA is an 6 10/100 Base-TX with M12-connectors industrial unmanaged Ethernet switch with IP54/IP41 rated protection which meets the high reliability requirements demanded by industrial vehicle applications.

E-marking certificate, ITxPT; ISO 7637-2 compliant and extended working temperature

The T(P)ES-0006CA is designed to meet with critical network environment with IP54 enclosure and M12 connectors for protection against dust and water. It has passed harsh environmental testing to comply with Industrial EMI and Safety standards as well as stability testing such as Free fall, Shock, and vibration. It is labeled with ITxPT public transport standards

and also compliant with ISO 7637-2 which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

For a greater flexibility in application the T(P)ES-0006CA supports an extended operating temperature range from -40°C to 75° C.

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 12V or 24V but has demand of IP surveillance or VoIP applications.

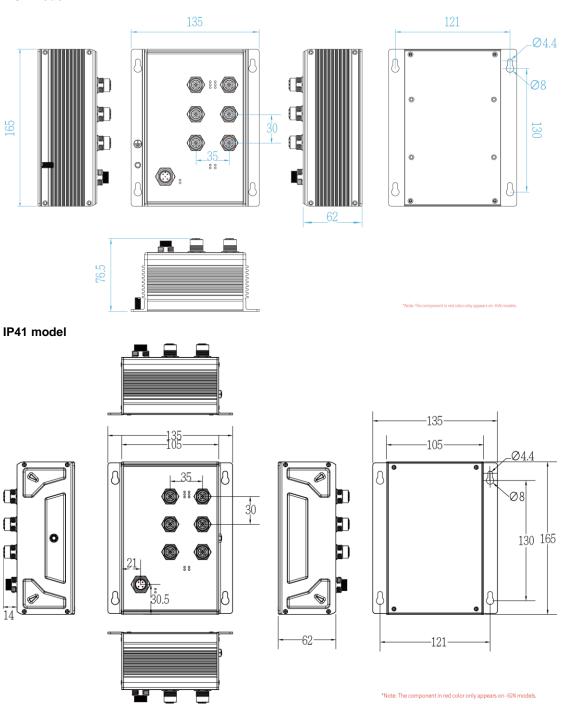
FEATURES & BENEFITS

- 6 10/100TX Unmanaged Industrial Ethernet Switch with
 M12 connectors and IP54/IP41 rated protection
- Supports IEEE802.3at/af feeding power up to 30W per
 PoE port (for PoE model)
- Back-plane (Switching Fabric): 1.2 Gbps

- 8K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail** and wall mount design
- E-mark certificate for vehicle (24V model)
- ITxPT labeled w/ ignition function (24V-IGN model)

DIMENSIONS (unit=mm)

IP54 model



SPECIFICATIONS

Hardware Specification			Higher PoE budget can be applied upon request. **
IEEE Standard	IEEE802.3 10BASE-T Ethernet		Note: This is a non-PoE galvanic isolated
	IEEE802.3u 100BASE-T Ethernet		model.
	IEEE802.3x Flow Control and Back Pressure	Operating Humidity	5% to 95% (Non-condensing)
	IEEE802.3at/af Power over Ethernet (for PoE	Operating	-40°C ~ 75°C (-40°F ~ 167°F)
	model)	Temperature	
Transfer Rate	14,880pps for Ethernet port	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
	148,800pps for Fast Ethernet port	Temperature	
Mac Address	8K MAC address table	Case Dimension	Aluminum case,
Connector	10/100TX: 6 x M12, 4-pole D-coded, Female		135mm(W)x165mm(H)x76.5mm(D) (IP54 model)
	with auto MDI/MDI-X function		135mm(W)x165mm(H)x76mm(D) (IP41 model)
	Power connector: 1 x M12, 4-pole A coded,	Weight	700g
	Male	Installation	Wall Mount Design
	1 x M12, 5-pole A-coded, Male (-IGN model)	EMC	FCC Class A, CE EN55011,
	Power		CE EN61000-4-2 (ESD),
	PWR1 PWR2		CE EN61000-4-3 (RS),
	V+ (2) 5 (1) V+		CE EN61000-4-4 (EFT),
	V- \(\frac{3}{4} \) V-		CE EN61000-4-5 (Surge),
	Ignition		CE EN61000-4-6 (CS),
Rotary Switch	Rotary switch for delay time configuration (24V-IGN		CE EN61000-4-8 (Magnetic Field),
	model)		CE EN61000-6-2,
LED	Per unit: Power 1 (Green), Power 2 (Green),		CE EN61000-6-4,
	Ethernet: Link/Activity (Green)		CE EN55032, CE EN55024
	PoE: (Green)		BS EN61000-4-2,
PoE pin assignment	M12 port # 1~ # 4 support IEEE 802.3at/af End-		BS EN61000-4-3,
	point. Per port provides up to 30W		BS EN61000-4-4,
	10/100TX		BS EN61000-4-5,
	7 2		BS EN61000-4-6,
	1:TX+ 2:RX+		BS EN61000-4-8,
	\		BS EN55032, BS EN55024
	4:RX-	Stability Testing	EN61373 (Shock and Vibration)
Power Supply	Dual input	Vehicle certificate	E13 marking (24V model)
	9~36VDC (24V model)		ITxPT labeled (24V-IGN model)
Power	3.5W without PoE (24V model)	MTBF	TBD
Consumption	5.577 Without FOL (247 House)	Warranty	5 years
Power Budget	Total 100W @ 24VDC and above		**Optional
Power Budget	Total Tooyy @ 24VDC allu above		

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.

- TPES-0006CA-4-54-24V......P/N: 8351-1361
 - 6 10/100TX w/4 PoE at/af Industrial Ethernet Switch IP54 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking certified
- TPES-0006CA-4-54-24V-IGN.......P/N: 8351-1362
 - 6 10/100TX w/4 PoE at/af Industrial Ethernet Switch IP54 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking and ITxPT certified w/ignition
- TPES-0006CA-4-41-24V......P/N: 8351-1364
 - 6 10/100TX w/4 PoE at/af Industrial Ethernet Switch IP41 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking certified
- TPES-0006CA-4-41-24V-IGN......P/N: 8351-1365
 - 6 10/100TX w/4 PoE at/af Industrial Ethernet Switch IP41 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking and ITxPT certified w/ignition
- TES-0006CA-54-24V......P/N: 8351-13611
 - 6 10/100TX Industrial Ethernet Switch IP54 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking certified
- TES-0006CA-54-24V-IGN......P/N: 8351-13621
- 6 10/100TX Industrial Ethernet Switch IP54 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking and ITxPT certified w/ignition
- TES-0006CA-41-24V......P/N: 8351-13641
 - 6 10/100TX Industrial Ethernet Switch IP41 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking certified
- TES-0006CA-41-24V-IGN......P/N: 8351-13651
 - 6 10/100TX Industrial Ethernet Switch IP41 rated w/M12 connectors; -40°C to 75°C; 9~36VDC dual input; E-marking and

ITxPT certified w/ignition

OPTIONAL ACCESSORIES

M12 Connector & Cable

ECONM12-04D(M)-C-180

Connector

■ ECON120005PF 5 pin M12 (Female) A-coded 180 degree crimp type connector for power supply ■ ECONM12-04A(F)-C-180 4 pin M12 (Female) A-coded 180 degree crimp type connector for power supply

4 pin M12 (Male) D-coded 180 degree crimp type connector for data

<u>Cable</u>

■ ECONM12-5P(F)70CM CABLE 5 pin M12 (Female) A-coded 90 degree cable for power supply, 70cm 4 pin M12 (Female) A-coded 90 degree cable for power supply, 150cm ECAB124030MJS 4 pin M12 (Male) D-coded 180 degree RJ45 STP cable for data, 300cm

■ ECONM12-05A(F) to MCP 6P- 5 pin M12 (Female) A-coded 180 degree to 6 pin MCP power cable, 20cm (For ignition models)

20CM CABLE

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