

I(P)ES-0008C

8 10/100TX PoE at/af Industrial Ethernet Unmanaged Switch ; 24V/48V input models

- Support IEEE802.3at/af up to 30W per port
- Dual power input: Dual 9~36VDC (24V model); 45V~56VDC input (48V model)
- Galvanic isolation protection (power input /Ethernet port to case ground)
- Max PoE budget 240W at 48V, 80W at 24V
- Efficient PoE configuration when ignition off (-IGN model)
- E-marking* certificate for vehicle application (24V model)
- w/ignition function (24V-IGN model)



OVERVIEW

Lantech I(P)ES-0008C is a high performance all 8 10/100TX industrial Ethernet switch with w/8 PoE 802.3af/at ports.

Galvanic isolation for dual 48V, 24V input with max PoE budget

The IPES-0008C 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 IPES-0008C-24V accepts power input 9~36VDC with IEEE802.3at/af standard and feed up to 30W per PoE port with maximum 80W@24V and 240W@48V output (at dual input).

PoE 48V model accepts 45~56VDC power input and can feed 48V output for PoE feeding in vehicle at max 240W @48V input.

Efficient PoE configuration when ignition off

Supports optional PoE feeding OFF timer (1/5/10mins or others) at ignition off mode to prevent car battery drain-out. (-IGN model)

E-marking certificate, ISO 7637-2 compliant High reliability and extended working temperature

Lantech I(P)ES-0008C provides $\pm 2000V$ EFT and $\pm 6000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of $-40^{\circ}C$ to $75^{\circ}C$.

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

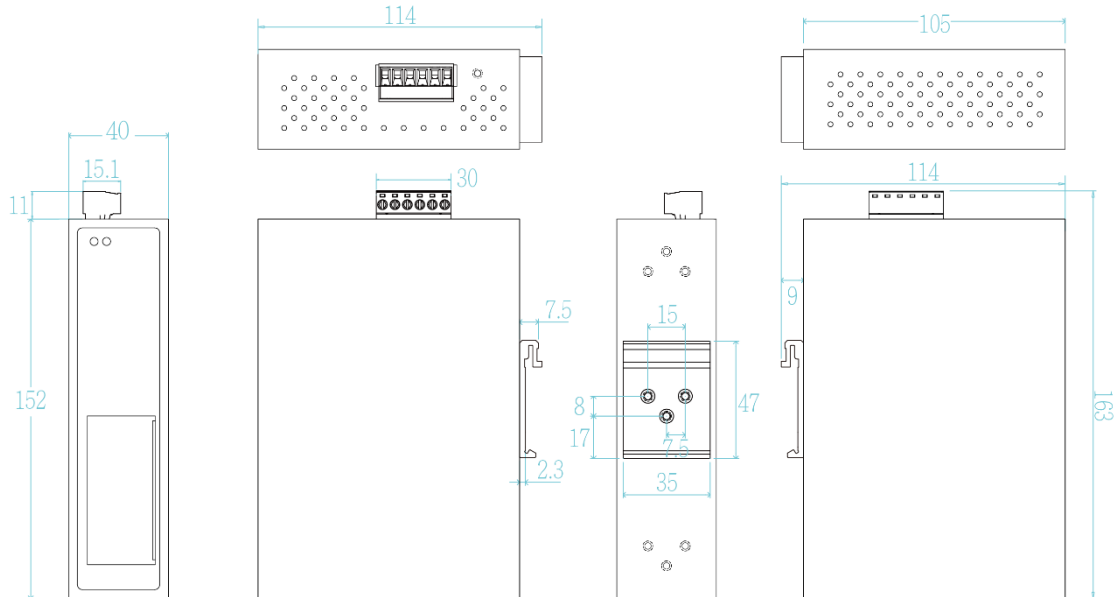
The 24V model is also compliant with ISO 7637-2 which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

FEATURES & BENEFITS

- 8 10/100TX industrial switch w/8 PoE 802.3af/at ports (Total 8 Ports Switch)
- Embedded 8 PoE ports IEEE802.3af/at function to feed power up to 30W@54V per port for active operation
- Dual 9V~36VDC power input for 24V model with

- ISO7637 compliance; PoE budget 80W at 24V input, dual 45V~56VDC power input for 48V model with PoE budget 240W
- Back-plane (Switching Fabric): 1.6Gbps
- Provides EFT protection ±2000 VDC for power line.
- Supports ±6000 VDC Ethernet ESD protection
- w/ignition function (24V-IGN model)
- Only 24VDC input system is applicable for E-mark approval
- IP30 metal housing with DIN rail and Wall-mount** design

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification		PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af Endpoint, Alternative A mode. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	Power Consumption	3W
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Case Dimension	Metal case, IP-30 40 (W) x 105 (D) x 152 (H) mm
Mac Address	2K MAC address table	Weight	TBA
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Installation	DIN Rail and Wall Mount** Design
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8 , CE EN61000-6-2
LED	Per unit: Power 1 (Green), Power 2 (Green); Ethernet port: Link/Activity (Green) PoE : Active (Green)	Safety	EN62368 (LVD)
Operating Humidity	5% ~ 95% (Non-condensing)	Stability Testing	IEC 60068-2-27 (Shock), IEC 60068-2-31 (Shock), IEC 60068-2-64 (Vibration), IEC 60068-2-80 (Vibration)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate	E24* marking (24V model)
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF	TBA (IEC62830 standards)
Power Supply	9~36VDC (24V model); 45~56VDC (48V model)	Warranty	5 years
PoE Budget	240W for 45~56V input (48V model) (50~57VDC input is recommended for 802.3at 30W applications) 80W at 24V input Higher PoE budget can be applied upon request. **		

*Future Release
**Optional

ORDERING INFORMATION

- **IPES-0008C-48V.....P/N: 8351-149**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 45~56VDC input; -20°C to 60°C
- **IPES-0008C-48V-E.....P/N: 8351-14901**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 45~56VDC input; -40°C to 75°C
- **IPES-0008C-24V.....P/N: 8351-1491**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637; -20°C to 60°C
- **IPES-0008C-24V-E.....P/N: 8351-14911**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637; -40°C to 75°C
- **IPES-0008C-24V-IGN.....P/N: 8351-1492**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637; -20°C to 60°C w/ignition
- **IPES-0008C-24V-IGN-E.....P/N: 8351-14921**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637; -40°C to 75°C w/ignition
- **IPES-0008C-24V-IGN.....P/N: 8351-14922**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637; -20°C to 60°C; w/ignition PoE OFF 1min.
- **IPES-0008C-24V-IGN-E.....P/N: 8351-14923**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637; -40°C to 75°C; w/ignition PoE OFF 1min.
- **IPES-0008C-24V-IGN.....P/N: 8351-14924**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637; -20°C to 60°C; w/ignition PoE OFF 5min.
- **IPES-0008C-24V-IGN-E.....P/N: 8351-14925**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637; -40°C to 75°C; w/ignition PoE OFF 5min.
- **IPES-0008C-24V-IGN.....P/N: 8351-14926**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637; -20°C to 60°C; w/ignition PoE OFF 10min.
- **IPES-0008C-24V-IGN-E.....P/N: 8351-14927**
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637; -40°C to 75°C; w/ignition PoE OFF 10min.
- **IES-0008C-48V.....P/N: 8351-1493**
8 10/100TX Industrial Ethernet Switch, dual 45V~56VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IES-0008C-48V-E.....P/N: 8351-14931**
8 10/100TX Industrial Ethernet Switch, dual 45V~56VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IES-0008C-24V.....P/N: 8351-1494**
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IES-0008C-24V-E.....P/N: 8351-14941**
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IES-0008C-24V-IGN.....P/N: 8351-1495**
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C w/ignition
- **IES-0008C-24V-IGN-E.....P/N: 8351-14951**
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C w/ignition

OPTIONAL ACCESSORIES

DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

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