

# ITP-800-8PH24

### EN50155 PoE Switch

### IP56, 8x FE M12 with 8x PoE 120W, 24/48VDC

- >> 24/48VDC Redundant Dual Power Input
- >> Regulated PoE Output Voltage
- >> M12/M23 Connector for UTP and Power
- » EN50155, EN50121-4, EN61000-6-2, EN61000-6-4, EN62368-1, CE and FCC Certified
- » IP56 Protection for Water and Dust













### **Features**

- Use M12/M23 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- 24/48VDC (20~57VDC) redundant dual input power with built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC
- Regulated PoE output voltage (50VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters
- Wide operating temperature -40~75°C (ITP-800-8PHE24)
- CE, FCC, EN62368-1, EN50155 and EN50121-4 for railway certified
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

<b>Specifications</b>							
Standard	IEEE 802.3	10Base-T Ethernet					
	IEEE 802.3u	100Base-TX Fast Ethernet					
	IEEE 802.3x	Flow Control and Back Pressure					
	IEEE 802.3af	PoE (Power over Ethernet)					
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)					
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps (Full wire-speed)						
Data Processing	Store and Forward						
Flow Control	IEEE 802.3x flow control, back pressure flow control						
MAC Address Table	1K						
Packet Buffer Size	448Kbits						
Network Connector	rk Connector 8x M12 D-code Female						
	10/100Base-TX Auto negotiation speed						
	Auto MDI/MDI-X function						
	Full/Half duplex						
Network Cable	le UTP/STP Cat. 5e cable above						
	EIA/TIA-568 100-ohm (100meter)						
Protocols	CSMA/CD						





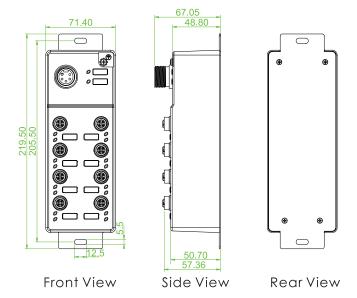


LED	System: Dawar 1 (Graan) Dawar 2 (Graan)							
LLD	System: Power 1 (Green), Power 2 (Green)  Port Link (Active (Green)							
	Per: Link/Active (Green)							
Reverse Polarity Protection	PoE: ON (Green)							
Overload Current Protection	Present for power input							
PoE Standard	Supported							
	IEEE 802.3af, IEEE 802.3at							
PoE Power Budget								
Power Supply	Provides 1x M23 (5-Pin, male) for redundant dual DC, 24/48V (20~57VDC) input power							
	Built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC							
	Regulate PoE output voltage (50VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters							
Power Consumption	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency			
	24 VDC	125W	3.6W	120W	98%			
	48 VDC	127W	4.3W	120W	97%			
Operating Temperature	-10 ~ 60°C (ITP-800-8PH24) -40 ~ 75°C (ITP-800-8PHE24)							
Operating Humidity		5% to 95% (Non-condensing)						
Storage Temperature	-40 ~ 85°C							
Housing	IP56 water-proof grade housing and fanless							
Dimensions	67 x 71.4 x 219.5mm (D x W x H)							
Weight	715g							
Installation Mounting	Wall mounting							
MTBF	937,878 Hours (MIL-HDBK-217)							
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Certification								
	CE (EN55024, EN	N55032)						
EMI	FCC, FCC Part 15 Subpart B Class A							
	CE							
Railway Traffic	EN50155, EN50121-4							
Immunity for Heavy Industrial Environment	EN61000-6-2							
Emission for Heavy Industrial Environment	EN61000-6-4							
EMS	EN61000-4-2 (ES	SD) Level 3, Criteria B						
(Electromagnetic Susceptibility)	EN61000-4-3 (R	S) Level 3, Criteria A						
Protection Level	EN61000-4-4 (B	urst) Level 3, Criteria A						
	EN61000-4-5 (S	urge) Level 3, Criteria B						
	EN61000-4-6 (C	S) Level 3, Criteria A						
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A							
	EN61000-4-11 Voltage Dips							
Safety	EN62368-1							
Shock	IEC 61373							
Freefall	IEC 60068-2-32							
Vibration	IEC 61373							

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## **Dimensions**



# **Ordering Information**

Model Name	Total Port	UTP M12	PoE	PoE Total Power Budget	Power Input	Certification				
		10/100 Base-TX	IEEE 802.3at		Redundant	EN50121-4 EN50155	EN62368-1	CE, FCC	EN61000-6-2 EN61000-6-4	Operating Temperature
ITP-800-8PH24	8	8	8	120W	24/48VDC	V	V	V	V	-10~60°C
ITP-800-8PHE24	8	8	8	120W	24/48VDC	V	V	V	V	-40~75°C

# **Optional Accessories**

### ■ Optional Cable/Connector

P/N: CAB-M12DM4-RJ45

M12 D-code Male (4-Pin) to RJ-45, AWG 24, IP67, 1 meter



For 100M UTP

#### P/N: CAB-M23F5-OPEN

M23 Female (5-Pin) to open wire, (AWG 16), IP67, 1 meter



For Power

### P/N: M12D-M4

M12 D-code Male (4-Pin) connector, IP67



For 100M UTP

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