

# IVS-G802T-8PH24

## E-Mark Certified PoE Switch

### 8x GbE RJ45 with 8x PoE + 2x GbE RJ45, 24/48VDC, E-Mark

- » 24/48VDC Redundant Dual Input Power with Built-in Very High Efficiency Booster
- » Regulate PoE Output Voltage (53VDC) to Stabilize PoE Device, and Guarantee Delivery PoE Power Distance to 100meter
- » E-Mark, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



Industrial grade E-Mark certified PoE switch IVS-G802T-8PH24, with 2 Gigabit UTP ports and 8 Gigabit PoE ports, input power range 24/48VDC, suitable for vehicle battery power supply. E-Mark is a European conformity mark that certifies that a vehicle or vehicle part complies with EU regulations. Laws and directives to ensure adequate safety and meet all environmental requirements for vehicle installation.

## Features

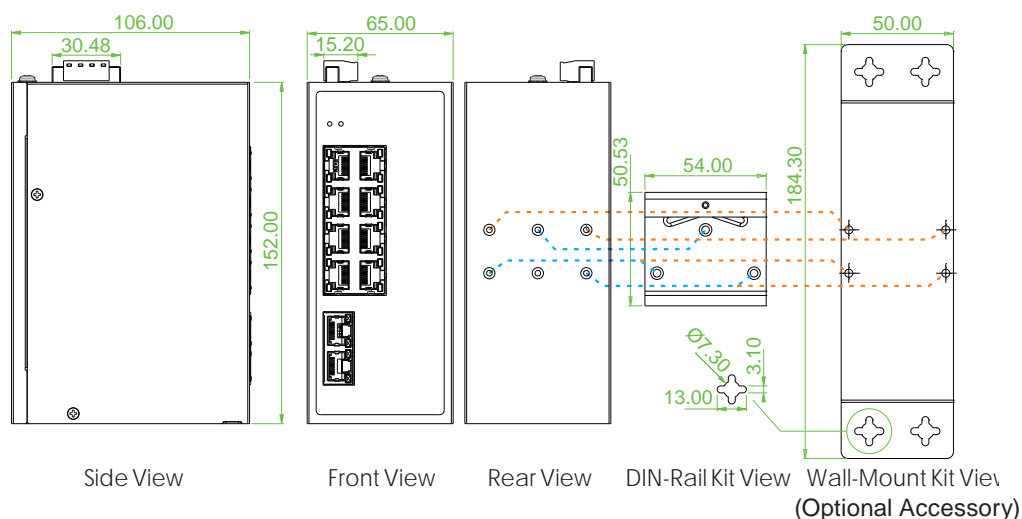
- Provides 8x IEEE 802.3at/af PoE+ output, 30W/port
- Supports flow control
- Jumbo frame support
- IP30 rugged metal housing and fanless
- Wide operating temperature -40 ~ 75°C ("E" model)

## Specifications

<b>Standard</b>	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gigabit Ethernet
	IEEE 802.3x	Flow Control and Back Pressure
	IEEE 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 20Gbps (Full wire-speed)	
<b>Data Processing</b>	Store and Forward	
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	
<b>Jumbo Frame</b>	9K Bytes	
<b>MAC Address Table</b>	4K	
<b>PoE standard &amp; RJ-45 Pin Assignment</b>	8x IEEE 802.3at/af PoE+ 2 pairs PoE, PoE+ Positive (V+) : RJ-45 pin 1, 2. Negative (V-) : RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)	
<b>Network Connector</b>	10x 10/100/1000Base-T(X) RJ45, Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex	
<b>Network Cable</b>	UTP/STP Cat. 5e cable or above	
	EIA/TIA-568 100-ohm (100 meter)	
<b>Protocols</b>	CSMA/CD	

LED	System: Power 1 (Green), Power 2 (Green)			
	UTP: 10/100 Link/Active (Green), 1000 Link/Active (Amber)			
	PoE: ON (Green)			
Reverse Polarity Protection	Supported for Power Input			
Overload Current Protection	Supported			
Power Supply	Redundant Dual DC 24/48VDC (20~57VDC) input power (Removable Terminal Block)			
	Built-in very high efficiency booster (94~97%) to rise up 53VDC for PoE output			
	Regulated PoE output voltage (53VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meter			
Power Consumption	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Power Budget
	24VDC	134.5W	9.9W	120W
	48VDC	131W	8.7W	120W
PoE Power Budget	Total 120W, 30W/port			
Removable Terminal Block	Provides 2 Redundant power, 4 pin			
Operating Temperature	-10 ~ 60°C (IVS-G802T-8PH24)			
	-40 ~ 75°C (IVS-G802T-8PHE24)			
Operating Humidity	5% to 95% (Non-condensing)			
Dimensions	106 x 55.5 x 135mm (D x W x H)			
Housing	Rugged Metal, IP30 Protection and Fanless			
Weight	795g			
Installation Mounting	DIN Rail mounting or wall mounting (Optional accessories)			
MTBF	490,144 Hours (MIL-HDBK-217)			
Warranty	5 years			
Certification				
EMC	CE (EN55032, EN55035)			
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE EN55022 Class A			
Vehicle	E13, E-Mark @24VDC			
Railway Traffic	EN50121-4			
Immunity for Heavy Industrial Environment	EN61000-6-2			
Emission for Heavy Industrial Environment	EN61000-6-4			
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B			
	EN61000-4-3 (RS) Level 3, Criteria A			
	EN61000-4-4 (Burst) Level 3, Criteria A			
	EN61000-4-5 (Surge) Level 3, Criteria B			
	EN61000-4-6 (CS) Level 3, Criteria A			
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A			
Shock	IEC 60068-2-27			
Freefall	IEC 60068-2-32			
Vibration	IEC 60068-2-6			

## Dimensions



## Ordering Information

Model Name	Total Port	RJ45	PoE		Input Power	Certification				Operating Temperature
		10/100/1000 Base-T(X)	IEEE 802.3af/at	Power Budget	Redundant	E Mark	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
IVS-G802T-8PH24	10	10	8	120W	24/48VDC	V	V	V	V	-10~60°C
IVS-G802T-8PHE24	10	10	8	120W	24/48VDC	V	V	V	V	-40~75°C

## Optional Accessories

### ■ Industrial Power Supply

NDR-240-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ 70°C
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