

IVS-G802T-8PH24

10x GbE RJ45 with 8x PoE , 12/24/48VDC , E-Mark

NEW



- E-Mark, CE, FCC certified
- 12/24/48VDC redundant dual input power with built-in very high efficiency booster
- Regulate PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter



The E-Mark or e-Mark is a European conformity mark that certifies that a vehicle or vehicle component complies with EU regulations, laws and directives. CTC IVS-G802T-8PH24 Ethernet switch supports 8 x 1GbE PoE+ ports plus 2 x 1GbE non-PoE ports. With an input power range of 12/24/48VDC, this switch is suitable for vehicle battery power supplies and is e-Mark certified to ensure adequate safety, meeting all environmental requirements for installation in vehicles.

Features

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

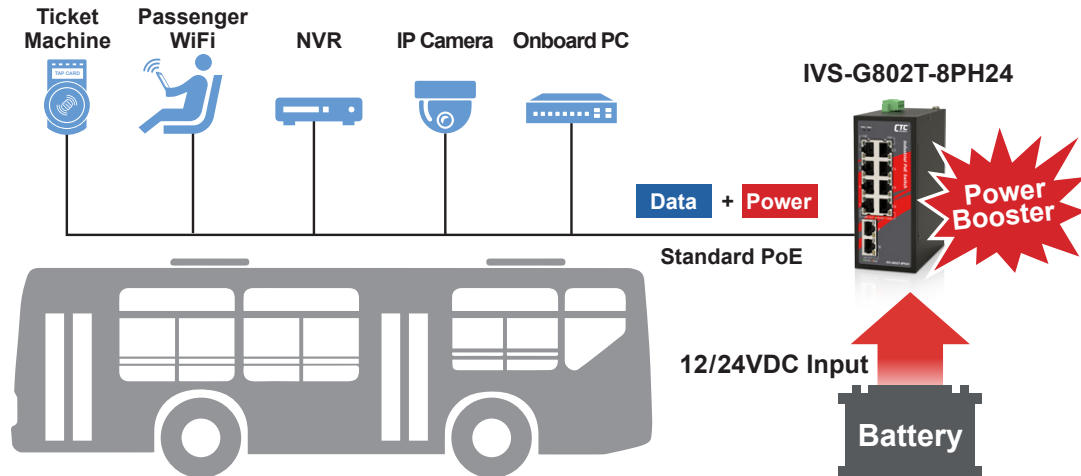
Specifications

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|--|---|
| IEEE Standard | 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) |
| Switch Architecture | Back-plane (Switching Fabric): 20Gbps Full wire-speed |
| Data Processing | Store and Forward |
| Flow Control | IEEE 802.3x flow control, back pressure flow control |
| Jumbo Frame | 9K Bytes |
| MAC Address Table | 4K |
| PoE standard & RJ-45 Pin Assignment | 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) |
| Network Connector | 10x RJ-45 10/100/1000Base-T auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex |
| Network Cable | UTP/STP Cat. 5e cable or above EIA/TIA-568 100-ohm (100meter) |
| Protocols | CSMA/CD |
| LED | Per unit: Power 1 (Green), Power 2 (Green) Per port: 10/100 Link/Active (Green) 1000 Link/Active (Amber) Per Port PoE LED • Active : ON • Inactive : OFF |
| Reverse Polarity Protection | Supported for Power Input |
| Overload Current Protection | Supported |
| Power Supply | Redundant Dual DC 12/24/48VDC (9.6~57VDC) input power (Removable Terminal Block) Built-in very high efficiency booster(94~97%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter (Figure 2) |
| Power Consumption | TBD |

| | |
|--|--|
| PoE Power Budget | Total 180W @48VDC, 30W/port Total 120W @24VDC, 30W/port Total 60W @12VDC, 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, Fanless |
| Weight | TBD |
| Installation Mounting | DIN Rail mounting, or wall mounting (Optional accessories) |
| MTBF | TBD (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 | E-Mark @ 24VDC |
| 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 |

Application

Figure 1 : PoE switch in smart Bus application



Dimensions

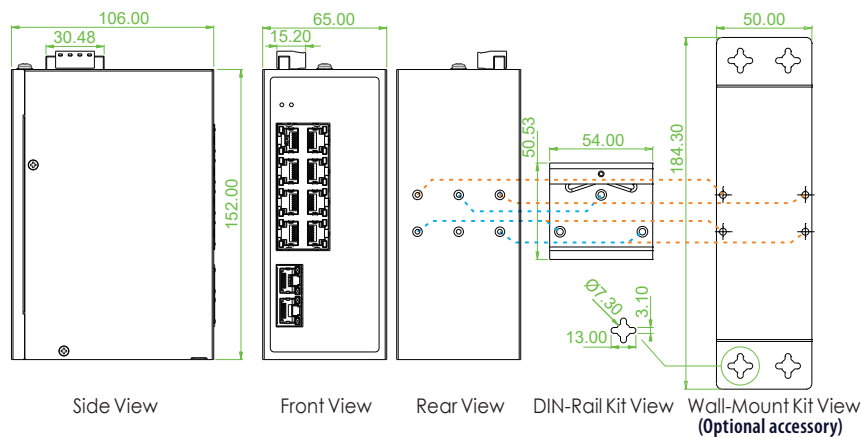
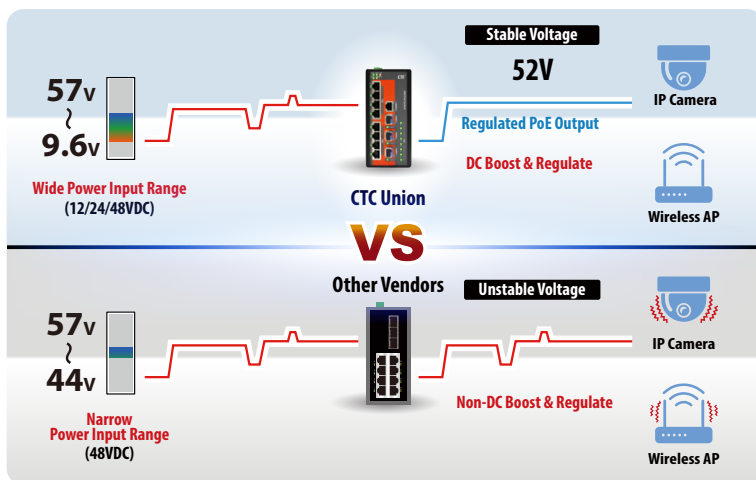


Figure 2 : High efficiency boost technology for PoE



- Regulated PoE output voltage (52VDC) to stabilize PoE device
- Guarantee delivery PoE power distance to 100 meters
- Wide range input power 12/24/48VDC (9.6~57VDC)
- Built-in very high efficiency (94~97%) to boost PoE output voltage

Ordering Information

| Model Name | Total Port | RJ45 UTP Port | PoE Port | | Input Power | Certification | | Operating Temperature |
|------------------|------------|-----------------------|-------------|--|-------------|---------------|---------|-----------------------|
| | | 10/100/1000 Base-T(X) | IEEE802.3at | Power Budget | Redundant | EMark | CE, FCC | |
| IVS-G802T-8PH24 | 10 | 10 | 8 | 180W @48VDC 120W @24VDC 60W @12VDC | 12/24/48VDC | V | V | -10~60°C |
| IVS-G802T-8PHE24 | 10 | 10 | 8 | 180W @48VDC 120W @24VDC 60W @12VDC | 12/24/48VDC | V | V | -40~75°C |

Package List

- One of the series device
- Din Rail with screws
- Terminal block

Optional Accessories

Industrial Power Supply

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