IVS-802GT

8x FE RJ45 and 2x GbE RJ45, E-Mark

NEW

- **E-Mark,** CE, FCC certified
- 12/24/48VDC redundant dual input power

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-802GT Ethernet switch support 2 x 1GbE ports plus 8 x 10/100Mbps Fast Ethernet ports and has a wide -40~75℃ operating temperature range. 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

- Supports flow control
- Jumbo frame support
- IP30 rugged metal housing and fanless
- Wide operating temperature -40 ~ 75℃ ("E" model)

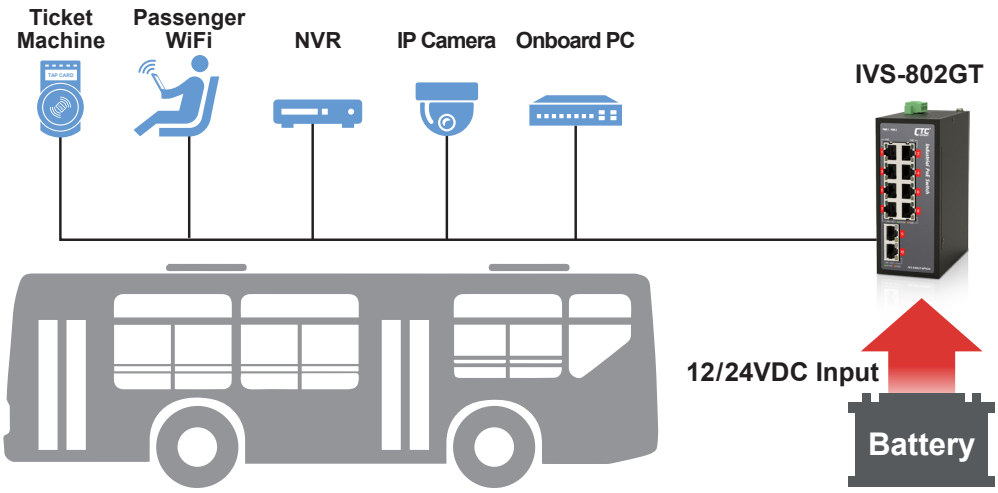
Specifications

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
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps 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
Network Connector	8x 10/100Base-TX RJ45, and 2x 10/100/1000Base-T(X) RJ45 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/Acttive (Green) 1000 Link/Active (Amber)
Reverse Polarity Protection	Supported for Power Input
Overload Current Protection	Supported
Power Supply	Redundant Dual DC 12/24/48VDC (9.6~60VDC) input power (Removable Terminal Block)
Power Consumption	TBD
Removable Terminal Block	Provides 2 Redundant power, 4 pin
Operating Temperature	-10 ~ 60℃ (IVS-802GT)
	-40 ~ 75℃ (IVS-802GT-E)

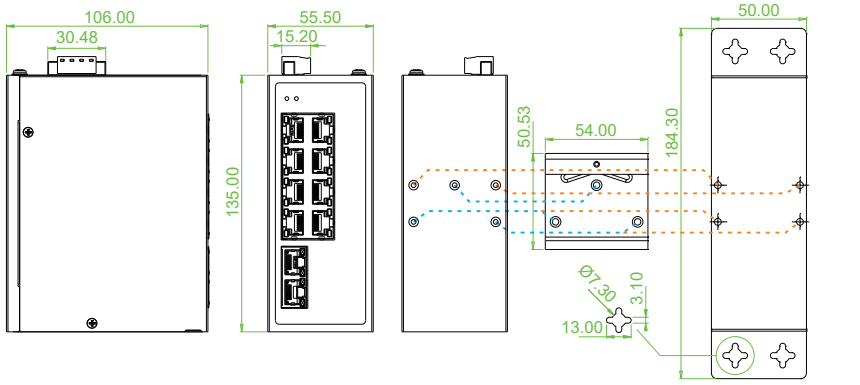
Operating Humidity	5% to 95% (Non-condensing)
Dimensions	106 x 55.5 x 135mm (D x W x H)
Housing	Rugged Metal, IP30 Protection, Fanless
Weight	TBD
Installation Mounting	DIN Rail mounting, or wall mounting (Optional accessories)
MTBF	TBD (MIL-HDBK-217)
Warranty	5 years
Certification	
EMC	CE (EN55032, EN55035)
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 : The switch in smart Bus application



Dimensions



Ordering Information

Model Name	Total Port	RJ45 UTP Port		Input Power	Certification		Operating Temperature
		10/100/1000 Base-T(X)	10/100Base-TX	Redundant	EMark	CE,FCC	
IVS-802GT	10	2	8	12/24/48VDC	V	V	-10~60℃
IVS-802GT-E	10	2	8	12/24/48VDC	V	V	-40~75℃

■ Package List

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

Optional Accessories

■ Industrial Power Supply

MDR-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ +70℃
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70℃