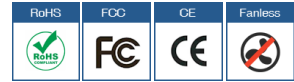


CTSC-035

RS-232/RS-485 to 4-port RS-485 Hub

Features:

- Operating Temperature: -40°C to 85°C
- ± 15 kV ESD Protection (RS-232), 600W Lightning and Surge Protection per wire (RS-485)
- Isolation Voltage: 2,500 Vrms, 500 VDC (Continuous)



Introduction:

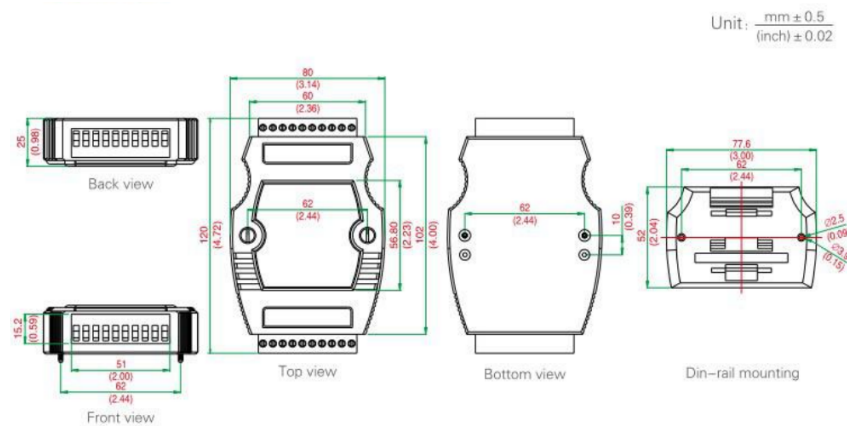
The CTSC-035 is an industrial hub specifically designed for RS-485 bus applications in high-interference electromagnetic environments. It supports transmission rates up to 115.2 kbps. To ensure secure and reliable data communication, each RS-485 port utilizes optical isolation technology to protect against lightning and surges. The built-in isolator and 600 W surge protection circuit provide 2.5 kV of isolation for lightning and ESD protection. Additionally, the device uses an external switching power supply to eliminate common-ground interference, making it an ideal solution for outdoor applications.

In RS-485 mode, the Automatic Data Direction Control (ADDC) circuitry automatically identifies and manages the data flow direction. This eliminates the need for software handshaking and solves common RS-485 timing delay issues. With a transmission distance exceeding 1,200 m, the CTSC-035 is widely used in highway toll systems, traffic monitoring, and power utility networks.

Specification:

Hardware	
Standard	EIA/TIA RS-232C, RS-485
Connector	RS-232C: 10-pin Terminal Block RS-485: 10-pin Terminal Block
Interface Protection	RS-232: ± 15 kV ESD Protection RS-485: 600W Lightning and Surge Protection per Wire
Operating Mode	Asynchronous Half-duplex
Operating Power	9 - 30 VDC/150 mA
Isolation Voltage	2,500 Vrms 500 VDC, DC/DC Module
Baud Rate	300 bps - 115.2 kbps
Transmission Media	Twisted-pair (UTP) or Shielded Cable (STP)
Transmission Distance	5,000m (at 9,600 bps)
Dimension	120 × 80 × 25 mm
Operating Environment	-40°C to 85°C, Relative Humidity 5% to 95%

Dimension Drawing:



Ordering Information:

CTSC-035

RS-232/RS-485 to 4-port RS-485 Hub (Din-rail), Operating Power: 9 - 30 VDC/150 mA, Baud Rate: 300 bps - 115.2 kbps, Transmission Distance: 5,000m (at 9,600 bps), Isolation Voltage: 2,500 Vrms, 500 VDC (Continuous), ± 15 kV ESD Protection, 600W Lightning and Surge Protection per wire, Operating Temperature: -40°C to 85°C.

Other Models Are Available Upon Request.