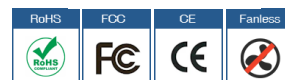


CTSC-011

RS-232 to RS-485 Interface Converter

Features:

- Operating Temperature: -25°C to 70°C
- ± 15 kV ESD Protection and 600 W Surge Protection per wire for RS-485 Port
- Baud Rate: 300 - 115,200 bps



Introduction:

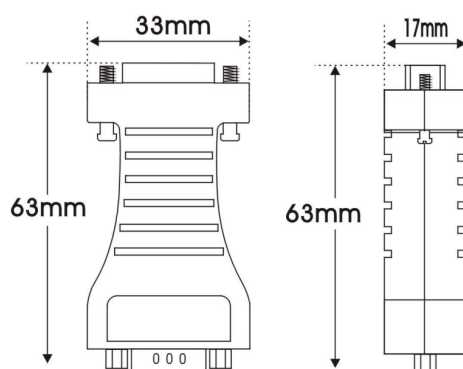
The CTSC-011 converter is compatible with both RS-232 and RS-485 standards, transforming single-ended RS-232 signals into balanced differential RS-485 signals. It extends RS-232 communication up to 1.2 kilometers without the need for an external power supply.

By utilizing zero-delay automatic transceiver switching and specialized I/O circuitry, it manages data flow direction automatically—eliminating the need for handshake signals such as RTS or DTR. Supporting transmission rates from 300 bps to 115.2 kbps, this device is ideal for industrial automation, access control, parking systems, and automated toll or banking solutions.

Specification:

Hardware	
Interface Standard	Complies with EIA/TIA RS-232C/485 Standards
Electrical Interface	DB9 Female Connector at RS-232 Side DB9 Male Connector at RS-485 Side, equipped with Terminal Block
Operating Mode	Asynchronous Half-duplex Differential Transmission
Interface Protection	± 15 kV ESD Protection and 600 W Surge Protection per wire (RS-485)
Transmission Media	Twisted-pair (UTP) or Shielded Cable (STP)
Baud Rate	300 bps - 115.2 Kbps
Dimension	63 x 33 x 17 mm
Operating Environment	-25°C to 70°C, Relative Humidity 5% to 95%
Transmission Distance	1,200m (RS-485) 5m (RS-232)

Dimension Drawing:



Ordering Information:

CTSC-011

Mini RS-232 to RS-485 Converter, Screw-fixed Plastic Housing, Baud Rate: 300 bps - 115.2 Kbps, Transmission Distance: 1,200m (RS-485); 5m (RS-232), Protection: ± 15 kV ESD Protection, 600 W Surge Protection per wire (RS-485), Operating Temperature: -25°C to 70°C.

Other Models Are Available Upon Request.