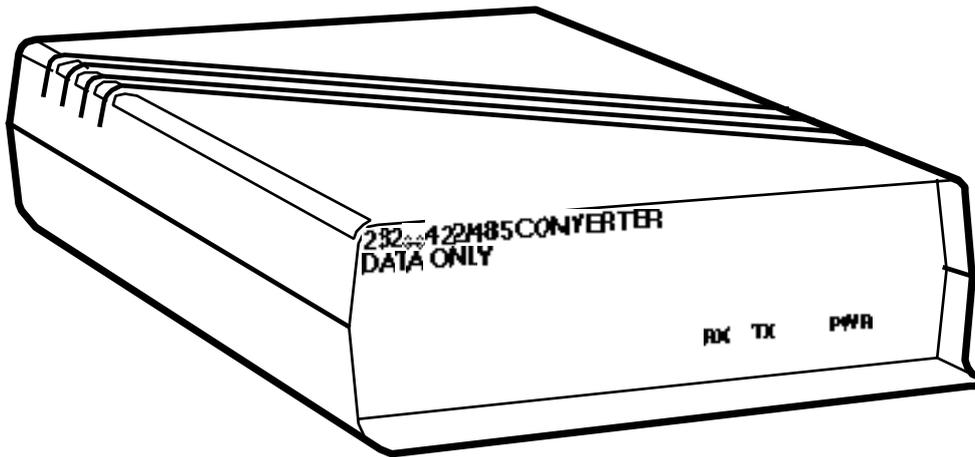


RS-232 ↔ RS-422/485 Converter (Data Only)



Use your RS-232 equipment with your RS-422/485 equipment—send your data up to 1.2km over the RS-422/485 interface at speeds up to 64 Kbps.

The RS-232 ↔ RS-422/485 Converter (Data Only) lets your RS-232 and RS-422/485 equipment communicate.

Key Features

- ▶ Transmits data up to 1.2 km over the RS-422/485 side using Category 3 cable or better.
- ▶ Runs at speeds up to 64 Kbps.
- ▶ RS-232 interface is user-selectable as either DTE or DCE.
- ▶ Standalone and rack-mount models available.
- ▶ Works in either point-to-point or multipoint applications.
- ▶ Operates over 4-wire lines, in full-duplex.
- ▶ Fast installation.

Overview

The RS-232 ↔ RS-422/485 Converter (Data Only) lets your RS-232 and RS-422/485 equipment communicate.

The Converter uses a 4-wire terminal block connector for the 422/485 interface, so it operates over 4-wire lines, in full-duplex mode. Simply wire the terminal block and you're ready to transmit and receive data.

Send your data up to 1.2 km over the RS-422/485 interface.

The Converter provides reliable conversion at speeds up to 64 Kbps.

When the Converter is in

RS-485 mode, you can select either RTS or DTR to enable the driver. Or you can set the driver so that it's constantly enabled.

The RS-232 interface uses a standard DB25 female connector, and it's user-selectable as either Data Terminal Equipment (DTE) or Data

Communications Equipment (DCE) for a wide range of applications.

The Converter works in point-to-point or multipoint applications.

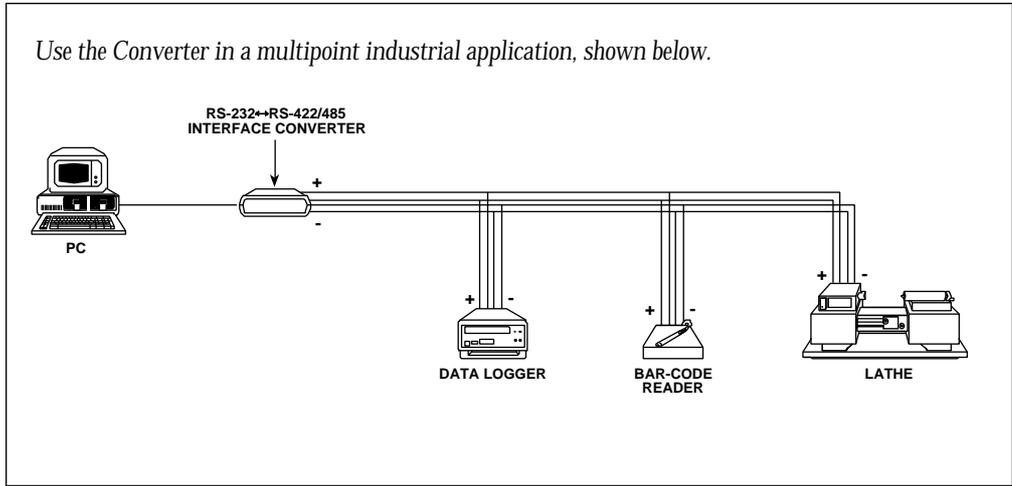
Choose the standalone or the rackmount model.

Typical Applications

Use the Converter in a point-to-point application: Connect your RS-232 terminal in your office to an RS-422/485 device via the Converter.

Use the Converter in a multipoint application: Connect up to 32 RS-422/485 devices to an RS-232 master PC via the Converter in an industrial environment.

The Converter connects your RS-232 and RS-422/485 equipment together—in point-to-point or multipoint, full-duplex mode.



Technically speaking

Jumpers and switches give you control of how the Converter uses important interface signals.

- To set the RS-232 port for DTE, put the DIP-switch jumper in socket XW1B. To set the RS-232 port for DCE, put the DIP-switch jumper in socket XW1A.

For data traveling from the RS-232 interface to the RS-422/485 interface:

- When the RS-232 port is configured as DCE, data received on RS-232 pin 2 (TD) will be transmitted out through TXA and TXB on the RS-422/485 port. For this transmission, either

you must assert RTS or DTR and then receive CTS true, or the RS-422/485 driver must be set to always enabled (W15 set to the B and C position).

- When the RS-232 port is configured as DTE, pin 8 performs the same function as RTS or DTR did for DCE; Pin 8 asks for permission to send. You can enable the RS-422/485 driver by setting the W15 jumper in the B and C position.

For data traveling from the RS-422/485 interface to the RS-232 interface:

- When the RS-232 port is

configured as DCE, data received on the RXA and RXB pins of the RS-422/485 port will be transmitted out Pin 2 (RXD) of the RS-232 interface.

- When the RS-232 interface is configured as DTE, data received on RXA and RXB pins of the RS-422/485 interface will be sent out Pin 3 (RXD) of the RS-232 interface.
- For the RS-422/485 interface, Switch S2 lets you select termination or no termination. The first and last devices in an installation need to be terminated; any others between need to be left unterminated.

The complete package

What you get when you order the RS-232 to RS-422/485 Converter.

- RS-232 to RS-422/485 Converter, Standalone or Rackmount Card.
- 230 VAC wallmount power supply.
- User manual.

Additional equipment you might need

- Rack to hold the Rackmount Cards.
- Cables to connect the Converter's RS-232 and RS-485 ports to your devices.

Specifications

Speed — Up to 64 Kbps

Maximum Distance - 1.2km

Operation — 4-wire, full-duplex; point-to-point or multipoint; user-configurable DTE/DCE RS-232 port

Leads supported — RS-232 port: 1-8, 20; RS-422/485 port: TXA, TXB, RXA, RXB

Indicators — (3) LEDs: TX, RX, POWER

Flow control — Transparent

Interface — Asynchronous RS-422/485; asynchronous RS-232

Connectors — (1) DB25 female; (1) four-screw terminal block

Temperature — Operating:

0° to 50° C; Storage: -20° to 70° C

Humidity — 0 to 95% non-condensing

Mean Time Between Failures (MTBF) — 200,000 hours

Power — Primary: 230 VAC/50 Hz model, @ 35 mA; Secondary: 17 volt center tapped, 0.7 ma; Connector pinning:

Pin	Function
1	Frame ground
2	Secondary (17 VAC)
3	Secondary (17 VAC)
4	Signal ground (center tap)

Size — Standalone unit: 4.6H x 14W x 22D cm; Rackmount card: 12H x 19W cm

Weight — Standalone unit: 0.5 kg; wallmount power supply: 0.2 kg; Rackmount card: 0.2 kg

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
RS-232 to RS-422/485 Converter (Data Only)	
Standalone.....	IC107AE-R2
Rackmount Card.....	IC107C-R2
16-Card Rack.....	RM005
Category 3 Twisted Pair Cable.....	EYN712A
RS232 Cable.....	ECM25C