BB-485CON

RS-232 to RS-485 Serial Converter

Features

- Converts unbalanced, full-duplex RS-232 to balanced, full-duplex or half-duplex RS-485
- Extend RS-232 data signals up to 1.2 km (4000 ft)
- Data rate: 240 kbps baud (typical)
- Quick, easy inline installation
- Power supply required (not included, sold separately)

Introduction

Model BB-485CON, RS-232 to RS-485 converter, converts unbalanced, full-duplex RS-232 signals to balanced, full-duplex or half-duplex RS-485 signals. RS-485 is an enhanced version of the RS-422 balanced line standard. It allows multiple drivers and receivers on a two-wire system.

The RS-232 port uses a male DB-25P type of connector with pins 2 (TD input) and 3 (RD output) supported. Protective Ground (pin 1) and Signal Ground (pin 7) are also connected. The RS-485 port uses a female DB-25S type of connector with Send Data outputs on pins 2 and 14, and Receive Data inputs on pins 5 and 17. Protective Ground (pin 1) and Signal Ground (pin 7) are connected through to the RS-232 connector.

Ordering Information

Model No.	RS-232	RS-485	Output
BB-485CON	DB25 Male	DB25 Female	RS-485 full-duplex or half-duplex

Accessories – Sold Separately
BB-SMI6B12V-P230C1 – Power Supply, 12 Vdc, 6 W, 2.5mm plug, International AC Input, International AC Blades (NATAM, EU, UK, Australia, China)

Specifications

Serial Technology	
Communication	2-channel, RTS control
Data Rate	240 kbps (typical); 120 kbps (minimum)
RS-232 Connector	DB25 male
RS-422 Connector	DB25 female
Power	
Source / Requirements	12 Vdc, 100 mA external power source (power supply required, not included, sold separately)
Power Connector	2.5mm power jack
Regulatory – Approvals / Standards / Directives	
FCC Part 15, CISPR	
CE – Directives	2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS)
Other	EN 55022 + AC Class A Emissions EN 61000-6-1 Generic Standards for Residential, Commercial and Light Industrial Environments

Schematic

MODEL 485CON

ALL CAPACITORS IN MFD's
ALL RESISTORS 1/4W UNLESS INDICATED
* THROUGH—HOLE RESISTOR (NOT INSTALLED)