

RS-232 to RS-485 Converter

Model BB-485CON

ADVANTECH

www.advantech.com



PRODUCT FEATURES

- Convert 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)
- 240 kbps baud rate (typical)
- Quick, easy inline installation
- Power supply required (not included, sold separately)

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 NUMBER	RS-232 CONNECTOR	RS-485 CONNECTOR	OUTPUT SIGNALS
BB-485CON	DB25 Male	DB25 Female	Full- or half-duplex RS-485

ACCESSORIES – sold separately

BB-SMI612VP230C1 - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

All product specifications are subject to change without notice.
BB-485CON_1720ds

ADVANTECH

Advantech B+B SmartWorx, 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 1 (800)346-3119/Toll Free | orders@advantech-bb.com | support@advantech-bb.com

RS-232 to RS-485 Converter

Model BB-485CON



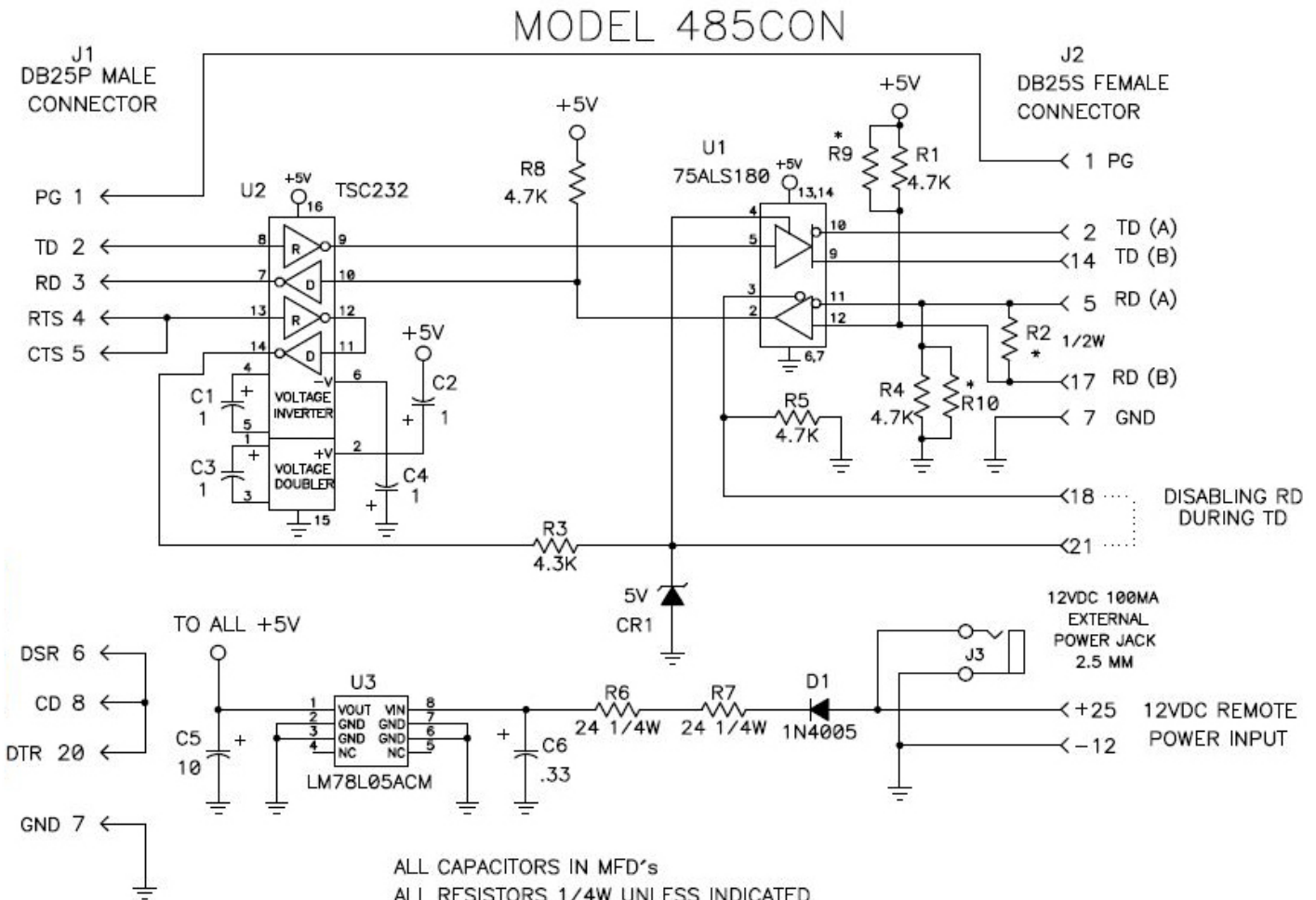
SPECIFICATIONS

SERIAL TECHNOLOGY	
Communication	2-channel, RTS control
RS-232 Connector	DB25 male
RS-485 Connector	DB25 female
Data Rate	240 kbps (typical); 120 kbps (minimum)
POWER	
Source Requirements	12 VDC, 100 mA external power source (power supply required, not included, sold separately)
Connector	2.5mm power jack
MEANTIME BETWEEN FAILURE (MTBF)	
MTBF	8,800,803 hours
MTBF Calc. Method	MIL 217F using Parts Count Reliability Prediction Method

SPECIFICATIONS - continued

APPROVALS / DIRECTIVES / STANDARDS	
FCC, CE	
CE - Directives	2014/30/EU - Electromagnetic Compatibility Directive (ECD)
	2011-65/EU - Amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS)
	2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements
	EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement

SCHEMATIC



* THROUGH-HOLE RESISTOR (NOT INSTALLED)