

BB-485LDRC9

RS-422/485 Converter, Industrial



Features

- Converts RS-232 to RS-422/485
- 2 kV optical isolation on input/output; 500W surge suppression
- 115.2 kbps data rate; extends data up to 1.2 km
- 40 to +80 °C wide operating temperature
- 35 mm DIN rail mount
- cULus Recognized, CE
- Modbus compatible
- External power supply required (not included)
- Automatic Send Data control - no software drivers required

Specifications

Serial Technology

- Data Rate** 115.2 kbps
- RS-232 - 2 options**
 - Option 1: Connector DB9 female (DCE)
 - Option 1: Signals TD, RD, GND
 - Option 2: Connector Terminal block
 - Option 2: Signals TD, RD, GND
- RS-422**
 - Connector Terminal block
 - Signals TDA(-), TDB(+), RDA(-), RDB(+), GND
 - Termination 120 Ohms (switchable)
- RS-485**
 - Connector Terminal block
 - Signals TDA(-), TDB(+), RDA(-), RDB(+), GND
 - Modes 2-wire and 4-wire
 - Termination 120 Ohms (switchable)

Isolation

- Lines Protected** Data lines
- Method** Optical
- Rating** 2,000 V

Surge Suppression

- Lines Protected** Data lines
- Method** TVS
- Rating** 7.5V bi-directional avalanche breakdown device
500W peak power dissipation
- Response Time** < 1 pico-second

Industrial Bus

- Modbus** ASCII / RTU

Power

- Connector** Terminal block
- Voltage** 10-30 V_{DC}
- Consumption** 0.5 W
- Source** External power source required (not included)

Terminal Blocks

- Wire Size** 24 to 14 AWG
- Torque** 4 kgf-cm

LED Indicators

- Power (RED)** On when power applied
- TD (RED)** Flashes when RS-422/485 data is transmitted
- RD (RED)** Flashes when RS-422/485 data is received

Enclosure

- Material** Plastic
- IP Rating** 20
- Dimensions** 25 x 79 x 95 mm
- Mounting** 35 mm DIN rail

Environmental

- Operating Temperature** -40 to +80 °C
- Storage Temperature** -40 to +85 °C
- Operating Humidity** 0 to 95%, non-condensing

Meantime Between Failures (MTBF)

- MTBF** 257448 hours
- Calculation Method** MIL 217F Parts Count Reliability Prediction

Regulatory / Approvals / Certifications

- cULus Recognized, KCC**
- Directives - CE**
 - 2014/30/EU - Electromagnetic Compatibility Directive (EMC)
 - 2015/863/EU - Reduction of Hazardous Substances Directive (RoHS)
 - 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
- Standards - CE**
 - EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements
 - EN55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement

Ordering Information

- BB-485LDRC9** RS/422/485 Converter, Industrial

Accessories – sold separately

- BB-9PAMF6** RS-232 DB9 male to DB9 female serial cable, 1.8 m (6 ft)

Dimensions

Unit: mm

