

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

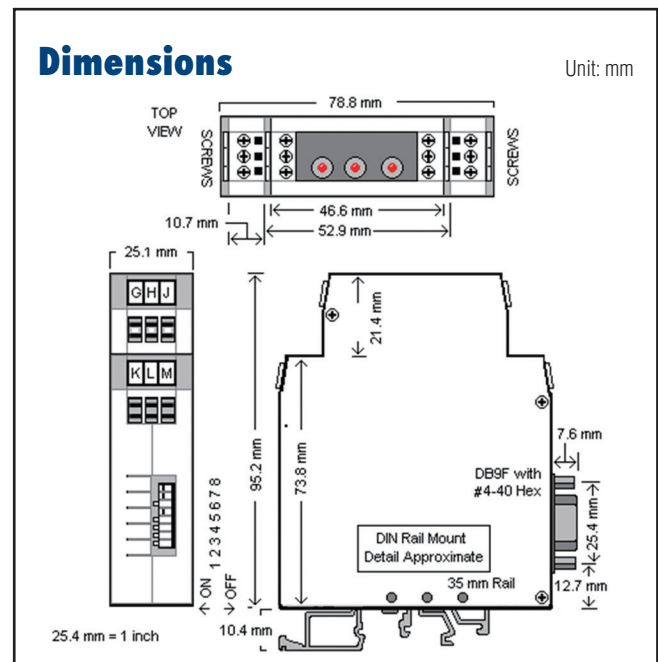
- **cULus Recognized, KCC**
- **Directives - CE**
 - 2014/30/EU - Electromagnetic Compatibility Directive (EMC)
 - 2015/863/EU - Reduction of Hazardous Substances Directive (RoHS)
 - 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
- **Standards - CE**
 - EN 55032 Class B - Electromagnetic 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)



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