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 (panel mount adapter sold separately)
- cULus Recognized, CE, UL508
- Modbus compatible
- External power supply required (not included, sold separately)
- Automatic Send Data control - no software drivers required

Specifications

Serial Technology
- Data Rate
  - Option 1: Connector DB9 female (DCE) Signals TD, RD, GND
  - Option 2: Connector Terminal block Signals TDA(-), TDB(+), RDA(-), RDB(+), GND
- RS-422 Connector Terminal block Signals TDA(-), TDB(+), RDA(-), RDB(+), GND
- 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
- Response Time < 1 pico-second

Industrial Bus
- Modbus ASCII / RTU

Power
- Connector Terminal block
- Voltage 10-30 Vdc
- Consumption 0.5 W
- Source External power source required (not included, sold separately)

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 257,448 hours
- Calculation Method MIL 217F Parts Count Reliability Prediction

Regulatory / Approvals / Certifications
- cULus Recognized, UL508, 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-MDR-20-24 Power supply, 24W, 24V, slim-line, DIN rail mount, plastic
- BB-9PAMF6 RS-232 DB9 male to DB9 female serial cable, 1.8 m (6 ft)

Dimensions

All product specifications are subject to change without notice. Last updated: 26-Nov-2019