BB-4850PDR

RS-422/485 Repeater, Industrial



Features

- Extends RS-422/485 data additional 1.2 km
- 2000V optical isolation for data lines; 600W surge suppression
- -40 to +80 °C wide operating temperature
- DIN rail mount (panel mount with optional adapter)
- · Automatic Send Data control no software drivers needed
- cULus Recognized, UL Recognized, CE, FCC
- 10-30 V power supply required (not included, sold separately)

Specifications

RS-422/485

Connector Terminal block

■ **Signals** TDA(-), TDB(+), RDA(-), RDB(+), GND

RS-422 4-wire, RS-485 2-wire and 4-wire.

Protected GND on isolated side. Up to 115.2 kbps (switch selectable)

Data RateIsolation

Method OpticalRating 2000 V

Surge Suppression

Method TVS

Rating
 6.5V bi-directional avalanche breakdown device

500W peak power dissipation

Power

Connector Terminal block
Voltage 10 to 30 V_{DC}
Power Consumption 0.7 W

Source External source required

Terminal Blocks

Wire SizeTorque24 to 14 AWG4 kgf-cm

LED Indicators

 2 Data LEDs (red)
 Data LED for each side of isolator Flashes when data transmitted

Enclosure

Material PlasticIP Rating 20

Dimensions 2.5 x 7.9 x 10.6 cm

• **Mounting** 35 mm DIN rail (panel mount adapter, sold separately)

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** 225299 hours

MTBF Calc. Method MIL217F Parts Count Reliability

Approvals, Directives, Standards

Agency Approvals
 CE, FCC, KCC, cULus Recognized, UL508 UL

Recognized

■ **EU Directives** 2014/30/EU — Electromagnetic Compatibility Directive

2015/863/EU – Reduction of Hazardous Substances

Directive (RoHS)

2012/19/EU - Waste Electrical & Electronic Equipment

(WEEE)

■ EU EMC Standards ÈN 55032 Class A – Electromagnetic Compatibility of

Multimedia Equipment – Emission Requirements EN 55024 – Information Technology Equipment – Immunity Characteristics – Limits and Methods of

Measurement

EN 61000-6-1 — Generic immunity standard for residential, commercial and light-industrial

environments

Ordering Information

■ **BB-4850PDR** RS-422/485 Repeater, Industrial

Accessories – sold separately

BB-MDR-20-24
 BB-MDR-40-24
 Power supply, 24V_{DC}, 1.0 A output, DIN rail mount
 Power supply, 24V_{DC}, 1.7 A output, DIN rail mount

BB-EK-CLIP-MPC

DIN rail clip for enclosure

