BB-485SD9R
BB-485SD9TB

RS-485 Converter, Port Powered

Features
- Extend RS-232 data signals up to 1.2 km
- Convert RS-232 TD and RD to RS-485 signals
- Automatic Send Data Control - no software drivers necessary
- Baud rates up to 115.2 kbps
- Powered from RS-232 handshake lines - no power supply required

Specifications

Serial Technology
- Data Rate: 115.2 kbps, maximum
- RS-232 Connector: BB-485SD9R: DB9 female
  BB-485SD9TB: DB9 female
- RS-485: BB-485SD9R: DB9 female
  BB-485SD9TB: Terminal board
- Biasing Resistors: 4.7k Ohms

Power
- Source: Port-powering; from RS-232 handshake lines. External power option, 12-16 VDC (BB-485SD9TB only)
- Power Connector: Terminal block (BB-485SD9TB only)
- Input Voltage: 12 VDC (BB-485SD9TB only)
- Power Consumption: 40mA, maximum

Mechanical
- Dimensions: BB-485SD9R: 60.0 x 32.0 x 16.0 mm
  BB-485SD9TB: 87.0 x 32.0 x 16.0 mm
- Enclosure: Plastic
- Weight: 81.6 gm

Meantime Between Failures (MTBF)
- MTBF: BB-485SD9R: 986,473 hours
  BB-485SD9TB: 968,410 hours
- MTBF Calc. Method: MIL-217F Parts Count Reliability Prediction

Wiring Information
- Refer to Quick Start Guide for wiring information, including terminal and pin identification. Available on website.

Environmental
- Operating Temperature: 0 to +70 °C
- Storage Temperature: -40 to +85 °C
- Operating Humidity: 0 to 95%, non-condensing

Regulatory
- FCC Part 15, CISPR, CE
- CE - Directives
  - 2014/30/EU - Electromagnetic Compatibility
  - 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
  - EN 60900-6-3 + A1 - Generic Emission Standard for Residential, Commercial and Light-industrial Environments (Class B)
  - EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-industrial Environments

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

<table>
<thead>
<tr>
<th>BB-485SD9TB</th>
<th>BB-485SD9R</th>
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<tbody>
<tr>
<td><img src="image" alt="Dimensions Diagram" /></td>
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**Unit: mm**

**Ordering Information**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RS-232 Connector</th>
<th>RS-485 Connector</th>
<th>Output</th>
<th>Optional Power Supply</th>
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</thead>
<tbody>
<tr>
<td>BB-485SD9R</td>
<td>DB9 Female</td>
<td>DB9 Female</td>
<td>RS-485 2-wire</td>
<td>-</td>
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<tr>
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<td>✓</td>
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**Accessories – Sold Separately**

- **BB-SMi6-12-V-ST**  
  Power Supply, 12 Vdc 6 Watt, Stripped and Tinned,  
  International AC Input, International AC Blades
- **BB-9PAMF6**  
  DB9 Male to DB9 Female Adapter Cable, 1.8 m