# BB-422PP9R BB-422PP9TB

## **RS-422 Converters, Port Powered**



#### **Features**

- Extend RS-232 data signals up to 1.2 km
- Change RS-232 TD and RD to balanced RS-422 signals
- Baud rates up to 115.2 kbps
- Quick, inline installation
- Powered from RS-232 handshake lines no power supply required
- At least one handshake line must be present (positive or negative voltage) no software control needed
- RS-232/RS-422 bidirectional transmission

### **Specifications**

#### **Serial Technology**

Data Rate
115.2 kbps maximum

**RS-232** 

• Connector BB-422PP9R: DB9 female BB-422PP9TB: DB9 female

• Signals TD, RD, RTS, CTS, DTR, DSR, DCD, (GND)

**RS-422** 

• Connector BB-422PP9R: DB9 female BB-422PP9TB: Terminal block

■ Signals TDA+, TDB+, RDS-, RDB+, (GND)

Operation RS-422, 4-wire
Biasing Resistors 4.7k Ohms
Termination None

Power

Source
Port-powered from RS-232 handshake lines

Optional, external 12-16  $V_{\text{DC}}$  power supply

(BB-422PP9TB only)

Mechanical

■ **Dimensions** BB-422PP9R: 6.1 x 3.3 x 1.7 cm

BB-422PP9TB:  $8.9 \times 3.3 \times 1.7 \text{ cm}$ 

Enclosure Plastic, In-lineWeight 45.3 gm

**Meantime Between Failures (MTBF)** 

■ **MTBF** BB-422PP9R: 2094328

BB-422PP9TB: 849670

• MTBF Calc. Method MIL 217F Parts Count Reliability Prediction

#### **Environmental**

Operating Temperature 0 to +70 °C
Storage Temperature -40 to +85 °C

• Operating Humidity 0-95%, non-condensing

#### **Approvals, Directives, Standards**

• FCC, CE

• **CE - Directives** 2014/30/EU – Electromagnetic Compatibility Directive

2011/65/EU amended by 2015/863/EU – Reduction of Hazardous Substances Directive (RoHS)

2012/19/EU – Waste Electrical and Electronic

Equipment (WEEE)

■ **CE - Standards** EN 55032 Class A – Electromagnetic Compatibility of

Multimedia Equipment – Emission requirements EN 55024 – Information Technology Equpment – Immunity Characteristics – Limits and methods of

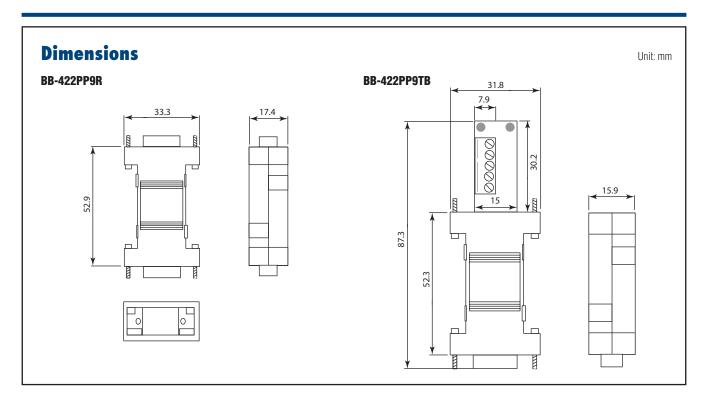
measurement

EN 61000-6-4 + A1 - Generic Emission Standard for

Industrial Environments (Class A)

EN 61000-6-2 – Generic Immunity Standard for

Industrial Environments



## **Ordering Information**

Model Number	RS-232 Connector	RS-422 Connector	Output	External Power Option?
BB-422PP9R	DB9 Female	DB9 Female	RS-422	No
BB-422PP9TB	DB9 Female	Terminal Block	RS-422	Yes

#### **Accessories – Sold Separately**

■ **BB-SMI6-12-V-ST** 12V<sub>DC</sub>, 6W power supply, stripped/tinned, international

AC input

(Note: external powering option for BB-422PP9TB only.)

**BB-9PAMF6** DB9 male to DB9 female adapter cable, 1.8 m