

Connect Your Palm to Any RS-485 Device

Includes Send Data Control

Model M54BAT3



The M54BAT3 is a battery powered, half-duplex Palm RS-232 to RS-485 converter with Send Data control. The unit converts TD and RD RS-232 lines to balanced RS-485 signals and supports two-wire RS-485 communications only. The converter is powered from two AAA batteries (not included). The RS-485 driver is enabled with each bit of data. The RS-485 receiver is disabled when the driver is enabled and is enabled when the driver is disabled. This prevents data from being echoed back into the RS-232 device. The RS-232 side has a DB-9 female connector. The RS-485 side has a six-position RJ11 connector.

Connections

The M54BAT3 has a Universal Palm Connector to connect into the Palm's RS-232 port. See Specifications below for applicable Palm models. For other Palm PDAs, use B&B's P485BTBx converter models.

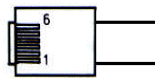
Regardless of the system, the M54BAT3 must be connected with the proper polarity (see Table 1). With no data being sent and the driver enabled, the RS-232 line should be negative and Data (A) should be negative with respect to Data (B).

Proper operation of any RS-485 system requires the presence of a signal return path between the signal grounds of the equipment at each end of an interconnection. This circuit reference may be established by a third conductor connecting the common leads of devices, or it may be provided by connections in each equipment to an earth reference. When the circuit reference is provided by a third conductor, the connection between the signal grounds and the third conductor should contain some resistance (e.g. 100 ohms) to limit circulating currents when other ground connections are provided for safety.

Modular Connector Pin Assignment



Jack End RJ-11



Plug End RJ-11 6 Conductor

Signal	RJ11 Pin #
Data A (-)	2
Data B (+)	5
Signal Ground	3 & 4

Table 1: M54BAT3 Pin-Outs

Specifications

- Communication: Two-wire
- Data Rate: 115.2K baud max.
- Power: Two AAA batteries (not included)
- Dimensions: 4.8L x 2.75W x .85H in (12.2 x 6.9 x 2.2 cm)
- Temperature Range: 32 to 161 °F (0 to 70 °C)
- Palm Models: i705, m515, m505, m500, m130, m125

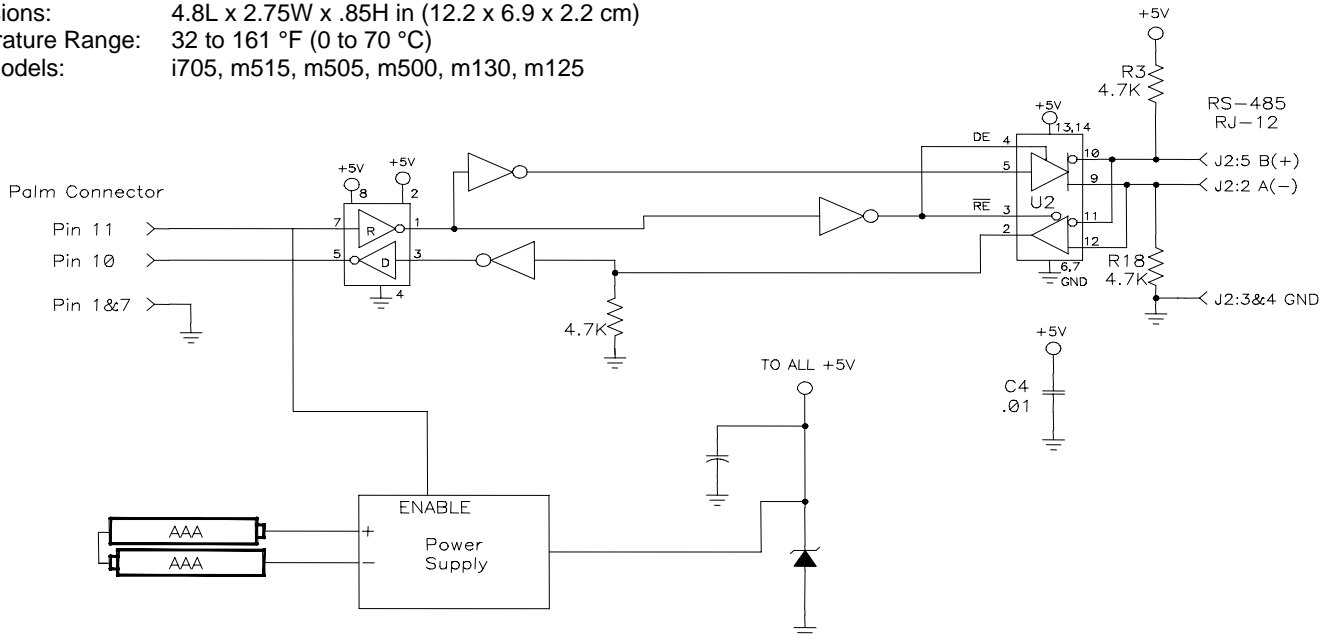


Figure 1

© B&B Electronics – Revised May 2002

This product designed and manufactured in USA of domestic and imported parts by

B&B Electronics Mfg. Co.
 707 Dayton Road - P.O. Box 1040 - Ottawa, IL 61350 USA
 Phone: (815) 433-5100 - Fax: (815) 433-5105
 Home Page: www.bb-elec.com
 Sales e-mail: orders@bb-elec.com - Fax: (815) 433-5109
 Technical Support e-mail: support@bb-elec.com - Fax: (815) 433-5104

B&B Electronics Ltd
 Westlink Commercial Park - Oranmore, Co. Galway - Ireland
 Phone: +353 91 792444 - Fax: +353 91 792445
 Home Page: www.bb-europe.com
 Sales e-mail: orders@bb-europe.com
 Technical Support e-mail: support@bb-europe.com