



BT-RS-P2

Long Range Class I Bluetooth

Houston Radar's BT-RS-P2 is an ultra-long-range Class I Bluetooth RS232 module. It features best in class standby power of less than 2mA, 800+ m open field connection range, and an option of detachable external or on-board antennas.

Features and Benefits

- Up to 1000m (0.6mile) range¹
- Ultra-low standby current 1.22mA at 12VDC
- Wide power supply range 4.5VDC to 32VDC
- Class I fully qualified Bluetooth 2.1 + EDR module
- FCC, IC pre-approved and CE marked
- -40 to 85°C Industrial temperature rating
- Surge and reverse polarity protected power input
- VCC input via DB9 pin 1, pin 9 or DC jack connector
- DTE (Male) or DCE (female) DB9 pin-out
- Pair to computer or other module to use in cable replacement mode
- Removable RPSMA external antenna or on-board chip-antenna²



External Antenna Class I
Bluetooth RS232

DB9 Pin #	DTE Male DB9 Function	DCE Female DB9 Function
1	+VCC input	+VCC input
2	RS232 Receive	RS232 Transmit
3	RS232 Transmit	RS232 Receive
4	No Connect	No Connect
5	GND	GND
6	No Connect	No Connect
7	RTS	CTS
8	CTS	RTS
9	+VCC input	+VCC input

Specifications & Recommended Operating Conditions	
Specification	Recommended Condition
VCC	+4.5V to +32VDC
ICC Standby (waiting for link)	1.22 mA average @ 12VDC
ICC Linked	12.7 mA average @ 12VDC
ICC Data Transfer	34.5 mA average @12VDC
TX Power	+20dBm
RX Sensitivity	-92dBm
DB9 type	Male wired as a 'DTE' or Female wires as a "DCE"
Maximum Baud Rate	230400
Operating °F (°C)	-40 (-40) min to 185 (85) max
Dimensions	2.3"x2.3" (58x58mm) w/o ant.
Weight	0.05Kg (0.1 lbs) approx.

Orderable Part #'s	Connector	Antenna Location	Description
BT-PS-P2-C-DCE	DB9 Female	Chip, Onboard	Wired as DCE (as a modem, can plug straight into PC COM)
BT-PS-P2-C-DTE	DB9 Male	Chip, Onboard	Wired as DTE (needs null modem to plug into a PC COM)
BT-PS-P2-E-DCE	DB9 Female	External whip with RPSMA connector	Wired as DCE (as a modem, can plug straight into PC COM)
BT-PS-P2-E-DTE	DB9 Male	External whip with RPSMA connector	Wired as DTE (needs null modem to plug into a PC COM)



1. Line of sight paired to another BT-RS-P2 module with external antenna. May vary with environmental conditions.
2. Agency approvals valid only with supplied antenna.
3. DC power supply not provided with unit