

Bluetooth Serial (RS232) Intelligent Adapter, Battery Operated

Class II

ACT-BT5711S



BT5711S enables any RS232 devices with Bluetooth capability and eliminates RS232 cable connections. This unit can be configured as a Bluetooth Piconet or as a point-to-point RS232 cable replacement set. It is an ideal wireless link solution for industrial, medical and commercial applications which require freedom from cable connections. It supports SPP profile as a Master or a Slave. It is battery powered in addition to AC power or external power option. So user can use it in the field application.

Application Scenario

Example of Cable Replacement application



Example of RS232 Piconet application



BT5711S enables any devices with Bluetooth capability and eliminates RS232 cable connections.

Features and Benefits

- Battery powered in additional to AC power or external power operation.
- No Driver Required for Non-Windows Based Communication (Client) Devices.
- Configurable as an RS232 Cable Replacement Set using external RJ45 to serial cable.
- Supports Class 2 Output Power Up to 10 m Operation Range (open air).
- Bluetooth SIG 1.2 Compliant
- Profile Supported: Serial Port Profile (SPP) as a Master or as a Slave
- Baud Rate Supported: 1200 bps ~ 1843200 bps
- Configurable for Baud Rate, Data Bit, Parity Check, Stop Bit, RTS/CTS Flow Control, BD Address, Device Name, Control Flag, PIN Code, Watchdog Timeout, Supervision Timeout, and Peer BD Address (only used in Master)

Specifications		
Model No.		ACT-BT5711S
Standard		Bluetooth SIG 1.2
Bluetooth Profile		Serial Port Profile (SPP) only
Chip Set		RFMD
Baud Rate		1.2k bps ~ 1843.2k bps; default 115.2k bps
Configurable Parameters		Baud Rate, Data Bit, Parity Check, Stop Bit, RTS/CTS Flow Control, COM Port, Device Name, Control Flag, PIN Code, Master or Slave, Watchdog Timeout, Supervision Timeout, BD Address
RF Specifications	Frequency Band	2.400~2.4835 GHz unlicensed ISM band
	Spectrum	FHSS (Frequency Hopping Spread Spectrum)
	Modulation	GFSK
	Output Power	4 dBm (typical)
	Receiving Sensitivity	-82 dBm (typical)
	Power Class	Class 2
	Antenna	Internal embedded
	Range	Up to 10 m (open-air)
LED Indicators		Battery low, Power & Connection Activities LED
Power		1. AAA size 1.5V x 4 600mAh batteries (Battery life: 10 hours running in active mode continuously); or 2. 7.5 V / 300 mA AC-DC power adapter (optional); or 3. +5~12V input through pin 9 of DB9M connector (optional).
Physical Dimensions & Environment	Dimensions	76.5 x 48.5x 28.0 mm (3.01 x 1.91 x 1.10 in.) (L x W x H)
	Weight	50 g (1.76 oz) without batteries
	Operating / Storage Temperature	0° C ~ 55° C (32° F ~ 131° F) / -20° C ~ 80° C (-4° F ~ 176° F)
Specifications subject to change without prior notice.		

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