

Bluetooth-to-Raw IR Bridge, AC & Battery Powered

Class 1

ACT-BT5711U-v2



ACT-BT5711U-v2 provides a bridge solution between Raw IR and Bluetooth, for data transmission.

It converts data received through Raw IR from sender, to Bluetooth (SPP Bluetooth profile support) data, or vice versa. It is battery powered in addition to AC power operation. So user can use it in the field application.

Application Scenario

Example of Cable Replacement application



BT5711U-v2 enables any devices with Bluetooth capability to connect with Raw IR devices.

Features and Benefits:

- Configurable Bluetooth baud rate 1200 bps ~ 921600 bps at the Bluetooth side; configurable IR baud rate: 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k and 115.2k bps at the IR side.
- 1.63 μ s IR pulse.
- 256 bytes outbound buffer and 256 bytes inbound buffer at IR side.
- Supports Virtual COM port at both IR & Bluetooth sides.
- Provides optional ACT-BT5711U-EK Download Kit for Raw IR parameters setting.
- Supports for pairing mode, device name, PIN code, which could be tailored and preset for you.
- Sniff mode available at Bluetooth side for power saving.
- Supports UART interface & RTS/CTS hardware flow control.
- Supports Bluetooth SPP (Serial Port Profile) as a slave or a master.
- Auto-connect feature when interconnecting two Bluetooth adapters.

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Specifications		
Model No.		ACT-BT5711U-v2
Standard		Bluetooth v2.1 + EDR
Bluetooth Profile		Serial Port Profile (SPP) only
Baud Rate		Bluetooth side: 1.2k bps ~ 921.6k bps; Default 9.6k bps IR side: 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k and 115.2k bps; Default 9.6k bps
Configurable Parameters at Bluetooth side		Baud Rate, Data Bit, Parity Check, Stop Bit, RTS/CTS Flow Control, COM Port, Device Name, Control Flag, PIN Code, Master or Slave, Reconnect, Prompt, Echo, Discover, Default
RF Specifications	Frequency Band	2.400~2.4835 GHz unlicensed ISM band
	Spread Spectrum & Modulation	8DPSK (Differential Phase Shift Keying)
	Output Power	<15 dBm
	Receiving Sensitivity	<-80 dBm
	Power Class	Class 1
	Antenna	External antenna
	Range	Up to 100 m (open-air)
LED Indicators		Battery Low, Power & Connection Activities LED
Power		1. AAA size 1.5V x 4 batteries ; or 2. 7.5 V / 300 mA AC-DC power adapter
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 ~ 60° C (32° F ~ 140° F) / -20° C ~ 80° C (-4° F ~ 176° F)
Specifications could be changed without prior notice.		

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