BT5711U provides a bridge solution between Bluetooth & Raw IR on data transmission.
It converts Data received through Bluetooth (SPP Bluetooth profile support) from sender to traditional RAW-IR 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 enables any devices with Bluetooth capability to connect with Raw IR devices.

Features and Benefits:

- Configurable Bluetooth baud rate 1200 bps ~ 1843200bps 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 and Configuration Utility for Bluetooth and Raw IR parameters setting. Supports for pairing mode, device name, PIN code.
- 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.

Specifications	
Model No.	**ACT-BT5711U**
Standard	Bluetooth SIG 1.2
Bluetooth Profile	Serial Port Profile (SPP) only
Baud Rate	Bluetooth side: 1.2k bps ~ 1843.2k 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, 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 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 ~ 55° C (32° F ~ 131 ^{o} F) / -20° C ~ 80° C (-4° F ~ 176° F)

Specifications could be changed without prior notice.	

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