



ACT-BT5713U provides a bridge solution between Bluetooth Low Energy (BLE) & Raw IR on data transmission. It converts Data received through Bluetooth 4.0 SPS (Serial Port Service Profile) from Android Phone or Tablet to traditional RAW-IR data or vice versa. It is battery powered. So user can use it in the field application.

Application Scenario

Example of Cable Replacement Application



ACT-BT5713U enables any devices with BLE capability to connect with Raw IR devices.

FEATURES AND BENEFITS:

- Default baud rate 9600 bps at the Bluetooth 4.0 (BLE) side.
- Supports UART based AT Command to configure Bluetooth 4.0 (BLE) Parameters.
- 1.63 μ s IR pulse.
- Supports ACTiSYS made SPS (Serial Port Service Profile) as a slave or a master.
- Demo Android Application is available which can scan-connect-data transfer with ACT-BT5713U.

ACT-BT5713U SPECIFICATIONS

(a) Bluetooth Spec:

Standard		Bluetooth 4.0 (BLE)
Bluetooth Profile		SPS (Serial Port Service Profile)
Baud Rate		Default 9600 bps
Configurable Parameters at Bluetooth side		Central/Peripheral Role, Link Loss Timeout, Slave Latency, Advertisement Interval, Bluetooth Name, Bluetooth Device ID
RF Specifications	Frequency Band	2.400~2.480 GHz
	Modulation	GFSK, MSK
	Output Power	$-23 \leq \text{Output Power} \leq +0 \text{ dbm}$;
	Receiving Sensitivity	< 0.1% BER at -90 dBm
	Antenna	Printed
	Range	Up to 25 m (open-air)
LED Indicators		Power & IR/Bluetooth Connection Activities LED
Power		1. AAA size 1.5V x 4 batteries ; or 2. USB-RJ45 Power cable. Pluggable to all USB-AC Power Adapter [110-240VAC, 300mA]
Physical Dimensions & Environment	Dimensions	80 x 50 x 30 mm (3.1 x 2.0 x 1.2 in.) (L x W x H)
	Weight	51.6 g (1.82 oz) without batteries
	Operating / Storage Temperature	0° C ~ 55° C (32° F ~ 131 ° F) / -20° C ~ 80° C (-4° F ~ 176° F)

(b) IR Spec:

IR Transmit Range	Min: 1 cm; Max: 158 cm; Typical: 158 cm
Baud Rate	9600 bps
Flow Control	None
IR Pulse	1.63 μ s

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