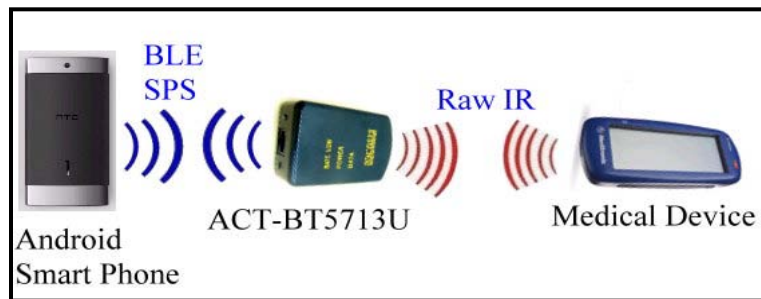ACT-BT5713U-v3 provides a bridge solution between **B**luetooth **L**ow **E**nergy (BLE) & Raw IR on data transmission.
It converts Data received through Bluetooth v5.0 from Android Phone or Tablet and iOS (Apple iphone & iPad) to traditional RAW-IR data or vice versa. It is battery powered. So user can use it in the field application.

Application Scenario

Example of Cable Replacement Application

ACT-BT5713U-v3 enables any devices with BLE capability to connect with Raw IR devices.

FEATURES AND BENEFITS:

- Default baud rate 9600 bps at the Bluetooth v5.0 (BLE) side.
- Backward compatible with Bluetooth Smart 4.X devices.
- Over-The-Air software upgrade.
- UART baudrate 2Mbps.
- 1.63 µs IR pulse.
- Demo Android/iOS Application is available which can scan-connect-setup-data transfer with ACT-BT5713U-v3.

ACT-BT5713U-v3 SPECIFICATIONS

(a) Bluetooth Spec:

Standard		Bluetooth 5.0 (BLE)
On air data rate		2Mbps
Baud Rate		Default 9600 bps
Configurable Parameters at Bluetooth side		Serial baudrate(2Mbps), Data bit(8), Parity(None, Even), Stop bit(1), Flow control(RTS/CTS), Bluetooth Device Name(Default: ACT-BT5713U-v3)
RF Specifications	Frequency Band	2.4GHz ISM (2.402~2.480 GHz)
	Modulation	GFSK
	Tx Power	-20 dBm <= Output Power <= +4 dBm
	Receiving Sensitivity	< 0.1% BER @1 Mbps at -96 dBm
	Range	Up to 240 meters (in open area)
LED Indicators		Battery Low, Power & Connection Activities LED
Power		1. AAA size 1.5V x 4 batteries ; or 2. 7.5V / 300mA AC-DC Power Adapter
Physical Dimensions & Environment	Dimensions	76.5 x 48.5 x 28 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)

(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 μs

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