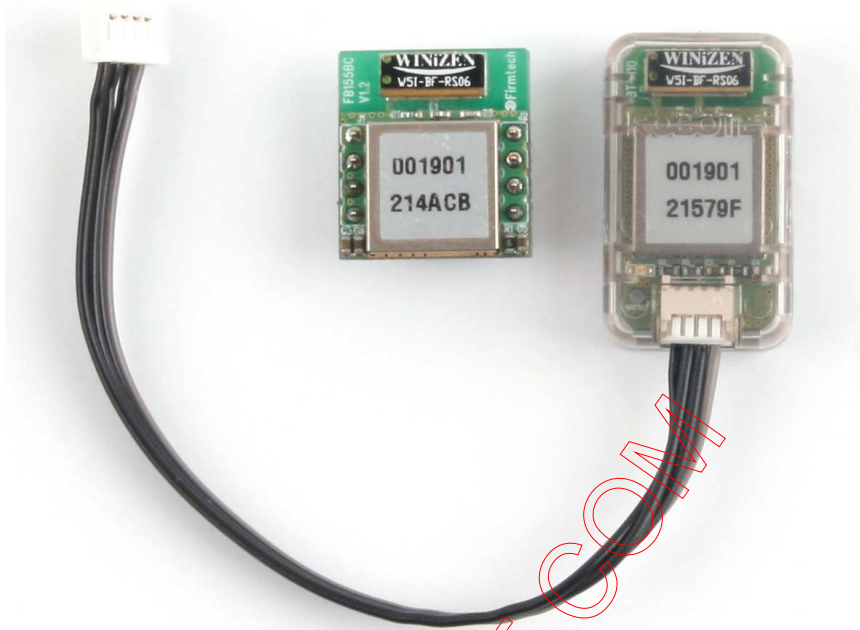


# BT-100/110A

## Part Photo



[Picture : BT-100 / 110A]

## Product Usage

BT-100/110A are Bluetooth modules that communicate via UART. The BT-100 and BT-110A only differ on mounting interface. The connectable parts are as follows:

(Please refer to **the explanation pages on each part** on **how to install.**)

- BT-100 : [ZIG2Serial](#), [RC-100A](#)
- BT-110A : [CM-100A](#), [CM-530](#) : Works for Remote Control, Wireless Download  
[CM-510](#), [CM-700](#) : Works for Remote Control only (Use after firmware update)

### \*\* Caution

- Followings are NOT compatible with BT-110A Set

1. Remote: RC-100 (When affixing on wireless module, green LED lights on)
2. Controller: CM-100, CM-5, CM-2+

The BT-100/110A are sold together as a set and set with factory default settings so there's no need to do additional work in settings during mounting. (Please be careful not to lose one of the set.)

### [ Example ]

- Controlling OLLO Bug using Bluetooth Communication ( BT-110A set is used. )
  - Installing BT-110A to OLLO Bug Controller(CM-100A)
  - Installing BT-100 to Wireless Controller(RC-100A)
- Controlling Bioloid Premium Kit in PC using Bluetooth Communication ( BT-110A set is used. )
  - Connecting to the serial port of PC after installing BT-100 to ZIG2Serial
  - Installing BT-110A to Bioloid Premium Kit Controller(CM-510, CM-530 and CM-700)

Connect the modules while power is off.  
Connecting while power is on could result in malfunction.

## BT-100/110A default set values

	BT-100 set values	BT-110A set values
Device Name	BT-100vx.x.x	BT-110vx.x.x
Pin Code (Pass key)	0000	0000
Uart (baud rate-data bit-parity bit-stop bit)	57600-8-N-1	57600-8-N-1
ROLE	MASTER	SLAVE
TIMEOUT	1sec	1sec
Connection Mode	MODE1	MODE2
Debug Char	0x21	0x21

## Pin Assignment Information



[ BT-100 ]



[ BT-110A ]

BT-100	BT-110 A	Pins	Features	I/O	Signal levels
1	4	GND	Ground	-	-
2	3	VCC	3.3V DC	INPUT	-
3	-	STATUS	STATUS LED	OUTPUT	TTL
			Factory Reset		

4	-	FA SET	Go back default setting	INPUT	TTL
5	-	UART_CTS	UART Clear To Send	INPUT	TTL
6	-	UART_RTS	UART Ready To Send	OUTPUT	TTL
7	2	TXD	Transfer Data (Data out)	OUTPUT	TTL
8	1	RXD	Received Data (Data in)	INPUT	TTL

## H/W Specification

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- Weight
  - BT-100 : 2.2g
  - BT-110A : 5.2g
- Dimension
  - BT-100 : 18.5mm X 20mm X 9.8mm (3.7mm, the height excluding connector)
  - BT-110A : 18mm X 30mm X 9.1mm
- Bluetooth : Bluetooth Specification 2.0 Support
- Range : 10M
- Frequency : 2.4 GHz ISM Band
- Bandwidth : MAX 250kbps
- Default baud rate : 57600bps
- Sensitivity : -83dBm (Typical)
- Transmit Power : 4dBm(Typical)
- Bluetooth profile supported : SPP (Serial Port Profile)
- Operating Voltage : 3.3V
- Consumed Current : 48mA (Max)
- Operating temperature : -10℃ ~ 50℃
- Baud rates : 1,200bps – 230,400bps
- Antenna : Chip Antenna
- Interface : UART (TTL Level)
- Flow Control (BT-100) : RTS, CTS support