

# RFLINK-Mix Wireless UART-to-UART

## An easy way to make all connections wireless



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RFLINK-Mix Wireless UART-to-UART is an easy-to-use wireless suite that allows users to quickly set up UART devices for remote transmission. You don't need to set up many long cables as the general wired UART suite do, you only need to connect the UART ROOT board of RFLINK-Mix to the master board (Arduino, Raspberry Pi, any other HOST), and the UART device board of RFLINK-Mix to the UART devices, then a wireless system is ready to go.

### Module appearance and dimension

The RFLINK-Mix UART-to-UART module contains a piece of the UART ROOT end (left side). Up to four UART Device ends (on the right side of the figure below, numbered 0 to 3

Although the appearance of the two type is the same, each type can be identified by the label on the back.

As shown in the figure below, the leftmost figure is the part side, and the others are the label side

The Group Address of this group of RFLINK-UARTROOT modules is 0002, baud rate 9600.

UART Devices as Device 0 , Device 1, Device 2, Device 3, Group Address is 0002 °



## Module characteristics

1. **Operating voltage:** 3.3~5.5V
2. **RF Frequency:**2400MHz~2480MHz °
3. **Power consumption:** 24 mA@ +5dBm at TX mode and 23mA at RX mode.
4. **Transmit power:** +5dBm
5. **Transmission distance:** about 80 to 100m in the open space
6. **Baud Rate(UART ROOT) :** 9,600bp or 19,200bps
7. **Dimension :** 25 mm x 15 mm x 2 mm (LxWxH)
8. Supports **1-to-1 or 1-to-multiple (up to four) transfers, and** is used in command mode when **used 1-to-multiple Command choose which device to transmit** with.

## Pin definition

<b>UART ROOT</b>	<b>UART DEVICE</b>
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**GND** → Ground  
**+5V** → 5V voltage input  
**TX** → corresponds to the RX of the Host UART  
**RX** → corresponds to the TX of the Host UART  
**THE CEB** → This CEB should connect to the ground (GND), then the module will be power-on and can be used as a power-saving control function.  
**OUT** → Output pin of IO Port (On/Off export)  
**IN** → Input pin of the IO Port (On/Off receive).  
**CMD\_Mode** → ROOT for command mode startup pin, active low

**GND** → Ground  
**+5V** → 5V voltage input  
**TX** → corresponds to the RX of the device UART  
**RX** → corresponds to the TX of the device UART  
**THE CEB** → This CEB should connect to the ground (GND), then the module will be power-on and can be used as a power-saving control function.  
**OUT** → Output pin of IO Port (On/Off export)  
**IN** → Input pin of the IO Port (On/Off receive).

## How to use

You can use this module RFLINK-Mix UART-to-UART to control multiple sets of UART devices and wirelessize the physical UART line.



RFLINK-Mix UART-to-UART usage examples can be downloaded from the official website.