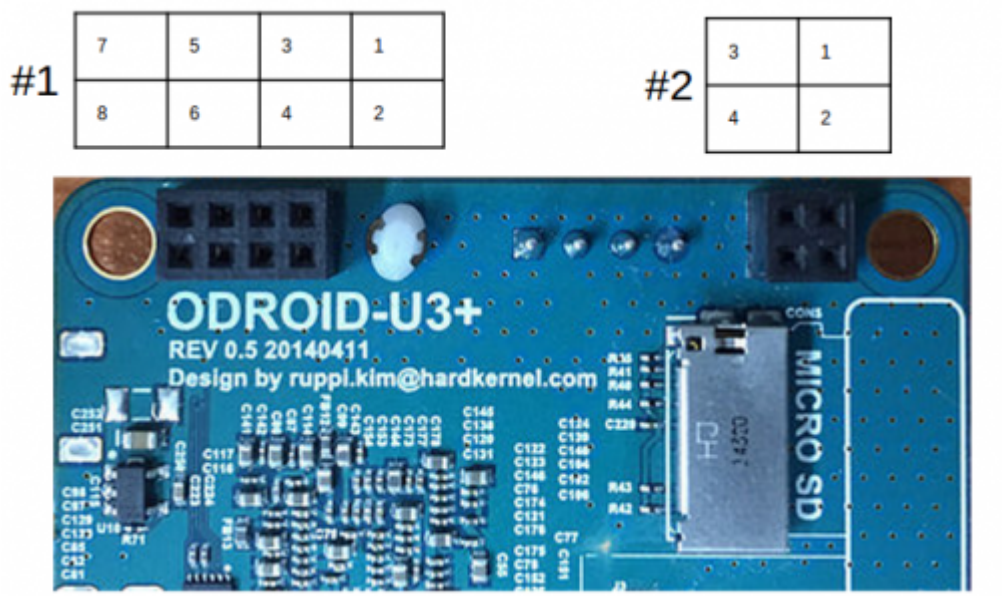
UART interface using the IO-Port #1

This page introduces how you can UART Interface using the IO-Port #1



J4 - 2×4 pins(IO Port #1)

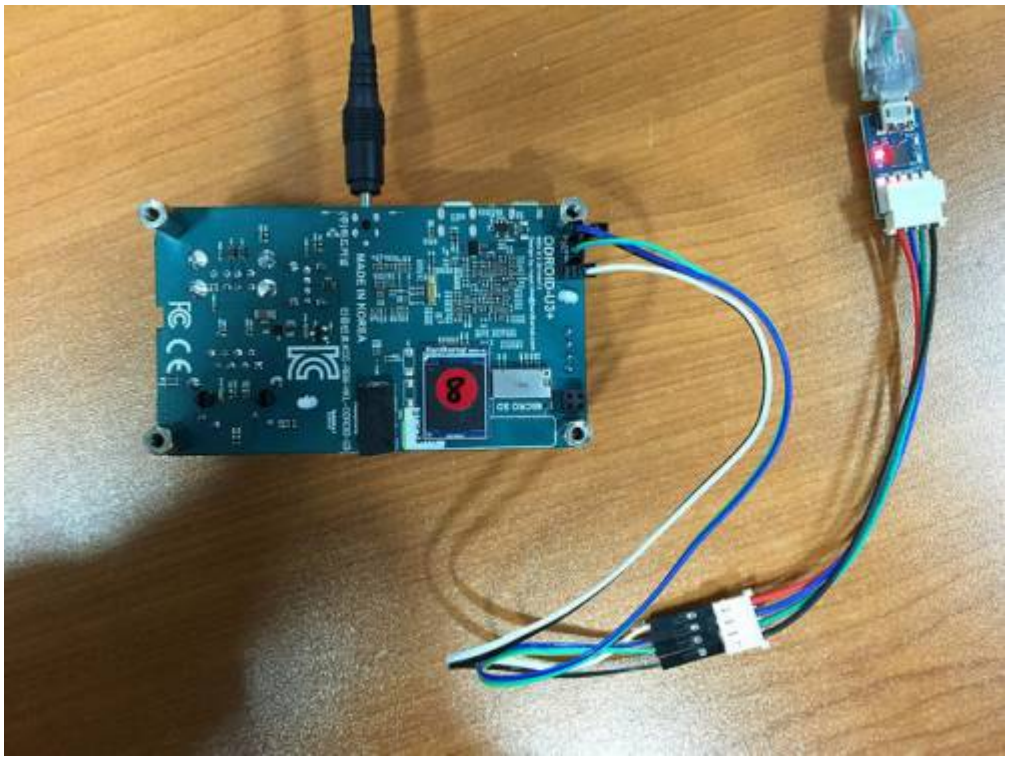
Pin Number	Expansion Net Name	Export Number	Pin Number	Expansion Net Name	Export Number
1	XEINT_8 (GPX1.0)	#199	2	1.8V Power	
3	XEINT_9 (GPX1.1)	#200	4	XURXD_0 (UART_0_RXD)	/dev/ttySAC0
5	XEINT_13 (GPX1.5)	#204	6	XUTXD_0 (UART_0_TXD)	/dev/ttySAC0
7	Ground		8	5V0 Power	

How to test your UART0 of IO-Port #1

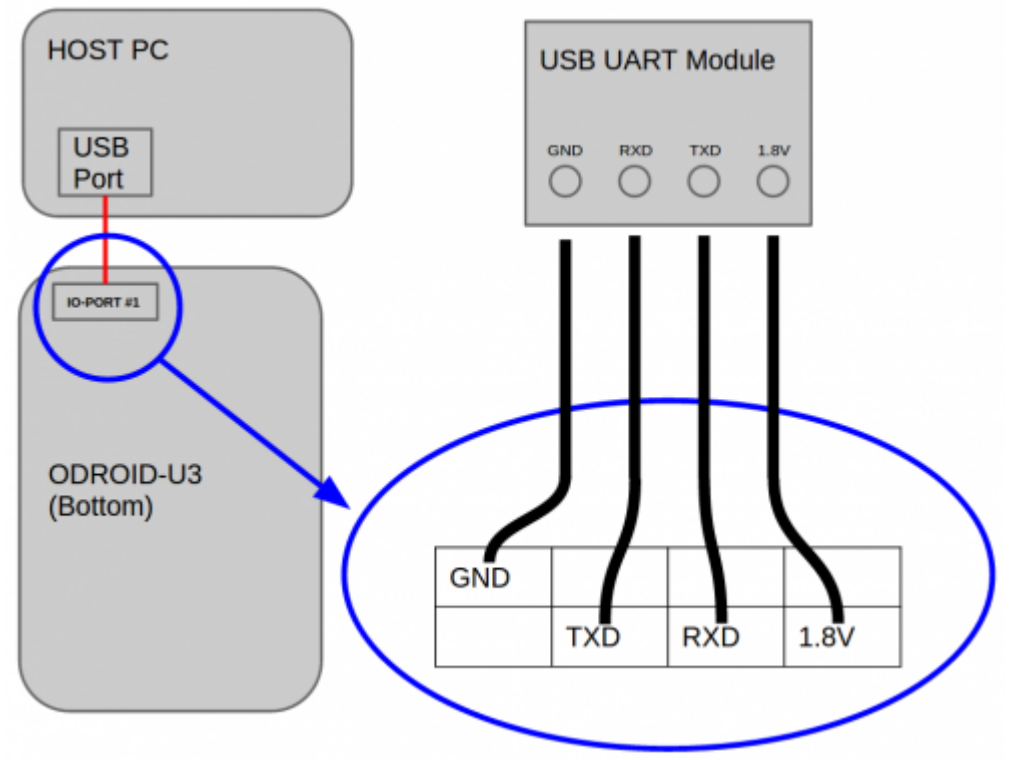
You need to prepare below items.

- **ODROID-U3**
- USB-UART Module Kit
- jumper wire x4
- serial comunication utility on your Host PC

1. You will connect jumper wire to IO-Port #1.
This picture is that jumper is connected.



IO-PORT UART Block Diagram



2. HOST PC setup.
You will open USB Module Devices on your HOST PC.
Ubuntu
Install Serial comunication utility.

```
sudo apt-get install minicom
```

After check your usb serial node, Open serial port.

```
ls /dev/ttyUSB*
sudo minicom -b 115200 -D /dev/ttyUSB0
```

3. Target board(**ODROID-U3**) setup.
Set a serial node on your **ODROID-U3**

```
stty -F /dev/ttySAC0 115200
```

4. **ODROID-U3** → HOST PC test.
ODROID-U3

```
echo 1 > /dev/ttySAC0
```

5. HOST PC → **ODROID-U3** test.
ODROID-U3

```
cat /dev/ttySAC0
```

HOST PC
Send characters via minicom.