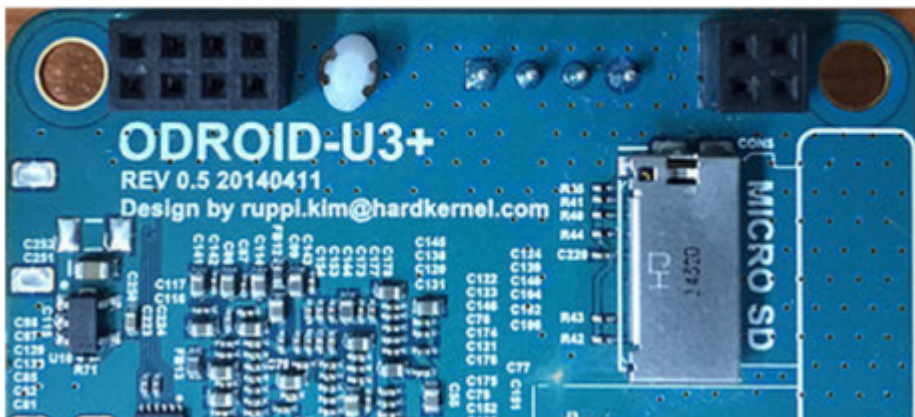
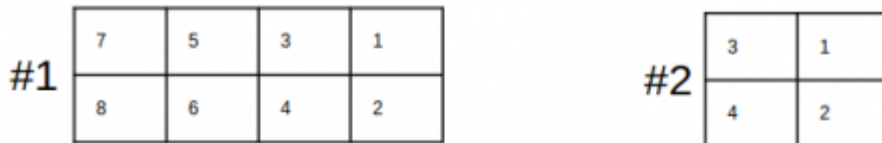


I2C interface using the GPIO pins

This page introduces how you can I2C interface using GPIO pins.



Note the GPIO-I2C support 1.8 Volt interface like other IO ports on Exynos processor. J4 - 2x4 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	

If your ODROID-U3 have old version kernel you need to update using odroid-utility.

```
sudo odroid-utility.sh
```

First, You will update the apt-get to install i2c-tools on your **ODROID-U3**.

```
sudo apt-get update
sudo apt-get install i2c-tools
```

Then, You can see i2c devices with i2cdetect command.

```
sudo modprobe i2c-dev
sudo i2cdetect -l
```

To use GPIO-I2C you need to load i2c-gpio-custom device driver module.
Usage : i2c-gpio-custom bus[0..3]=I2CBUS,SDA,SCL

```
sudo modprobe i2c-gpio-custom bus0=4,200,199
sudo i2cdetect -l
```

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http://wiki.odroid.com/old_product/odroid-x_u_q/odroid_u3/u3_ioport_i2c

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