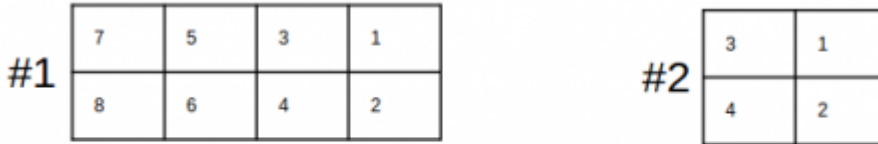


# SPI interface using the IO-Port #2

This page introduces how you can SPI interface using IO-Port on **ODROID-U3**.

**Note that SPI port supports only master mode and 1.8 Volt interface like other IO ports on Exynos processor.**



## J5 - 2x2 pins(IO Port #2)

This socket is not provides at revision 0.3

Pin Number	Expansion Net Name	Export Number	Pin Number	Expansion Net Name	Export Number
1	XSPICLK_1 (GPB.4)	#21	2	XSPICSN_1 (GPB.5)	#22
3	XSPIMOSI_1 (GPB.7)	#24	4	XSPIMISO_1 (GPB.6)	#23



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

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

## How to load the SPI driver module for generic SPI usage

Load the module to activate the SPI host.

```
sudo modprobe spi-s3c64xx
```

Load the module to activate the generic SPI.

```
sudo modprobe spidev
```

And you will have a standard SPI node.

```
ls /dev/spidev1.0
```

## How to load the SPI driver module for serial Flash

Load the module to activate the SPI host.

```
sudo modprobe spi-s3c64xx
```

Load the serial flash (misc) driver.

```
sudo modprobe odroid-ioboard
```

And you will have a Serial Flash node.

```
ls /dev/ioboard-spi-misc
```

## Where are the SPI device drivers in Kernel 3.8.y?

[SPI host interface driver](#)

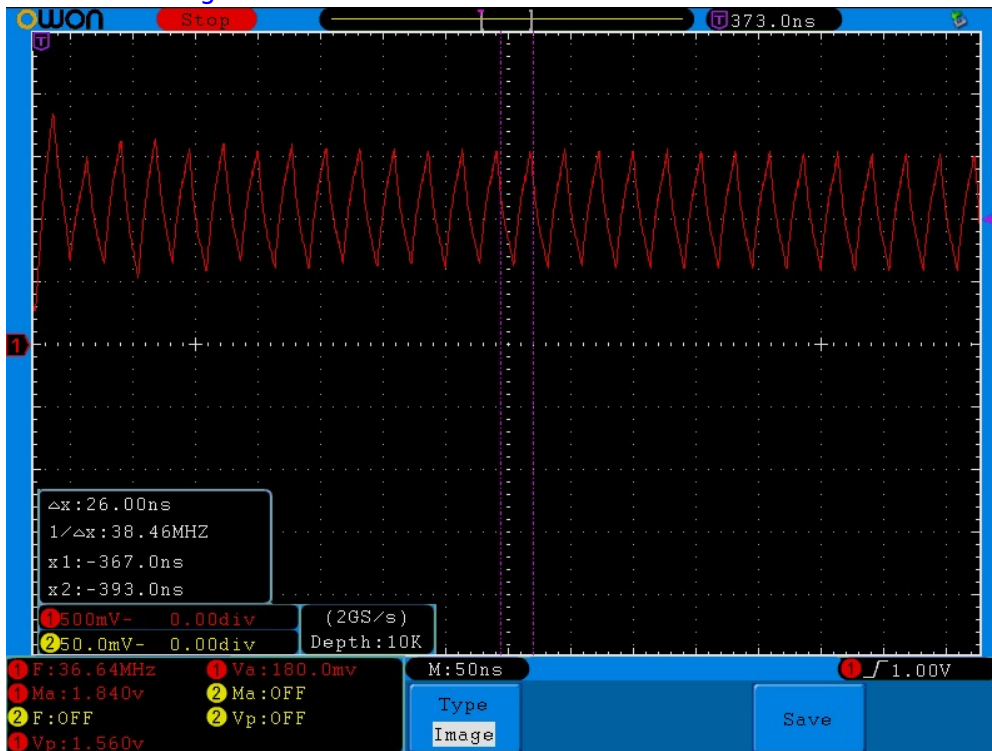
[SPI generic driver](#)

[Serial SPI Flash add-on driver example](#)

We have tested the ioboard-spi-misc.ko with a Serial SPI Flash memory SST25WF020A on the new IO Shield and the maximum speed was 40Mhz of SPI clock.

## How to change SPI clock

[SPI Clock configuration](#)



Refer this link to know the generic SPIDEV driver usage in detail.

<https://www.kernel.org/doc/Documentation/spi/spidev>

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