XU4 Shifter Shield

Works with the ODROID-XU4.

All the GPIO pins on the XU4 are 1.8Volt interface.
But still a lot of devices supports only 3.3Volt or 5Volt interface.

This level shifter board contains 3 x TSX0108E bi-directional level shifter ICs.
30Pin and 12Pin GPIO ports are converted to 0.1 inch (2.54mm) pitch convenient 40Pin header. All the signals can be level shifted to 3.3Volt and 5Volt. You can choose the voltage with a small slide switch.

The 40pin header pin map is compatible with ODROID-C1 and RPi.
We will support WiringPi compatible libraries very soon for easier development.
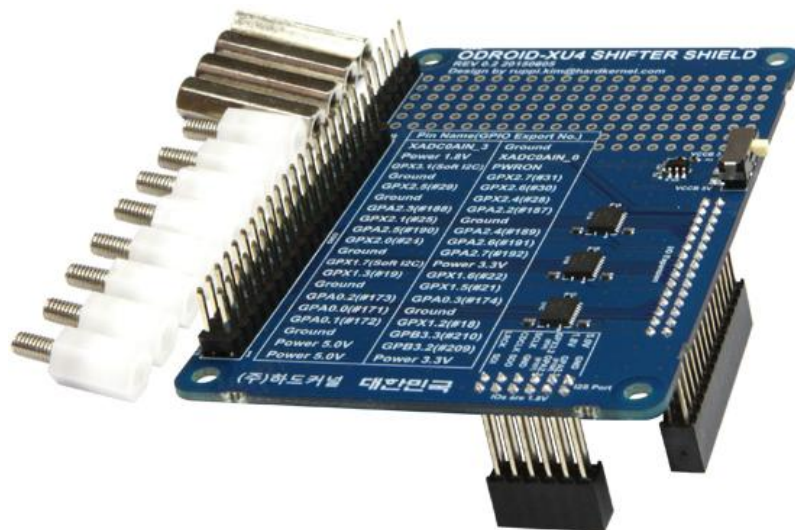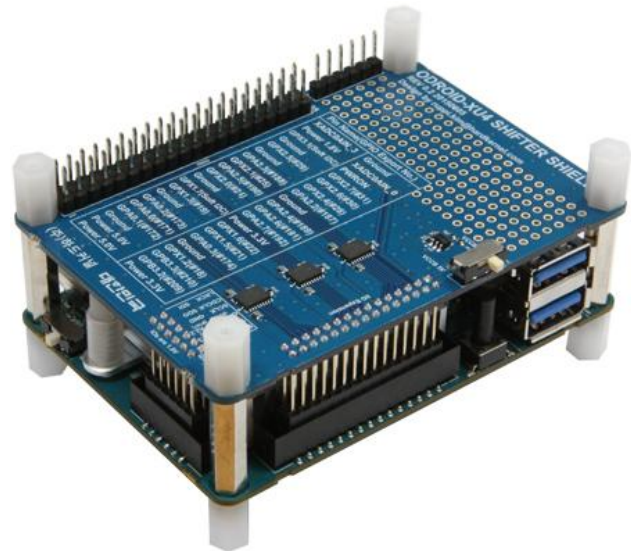
If you cut the 12pin socket, you can use it with XU3/XU3-Lite.

- Schematics
http://dn.odroid.com/homebackup/XU4_SHIFTER_SHIELD_REV0.1.pdf
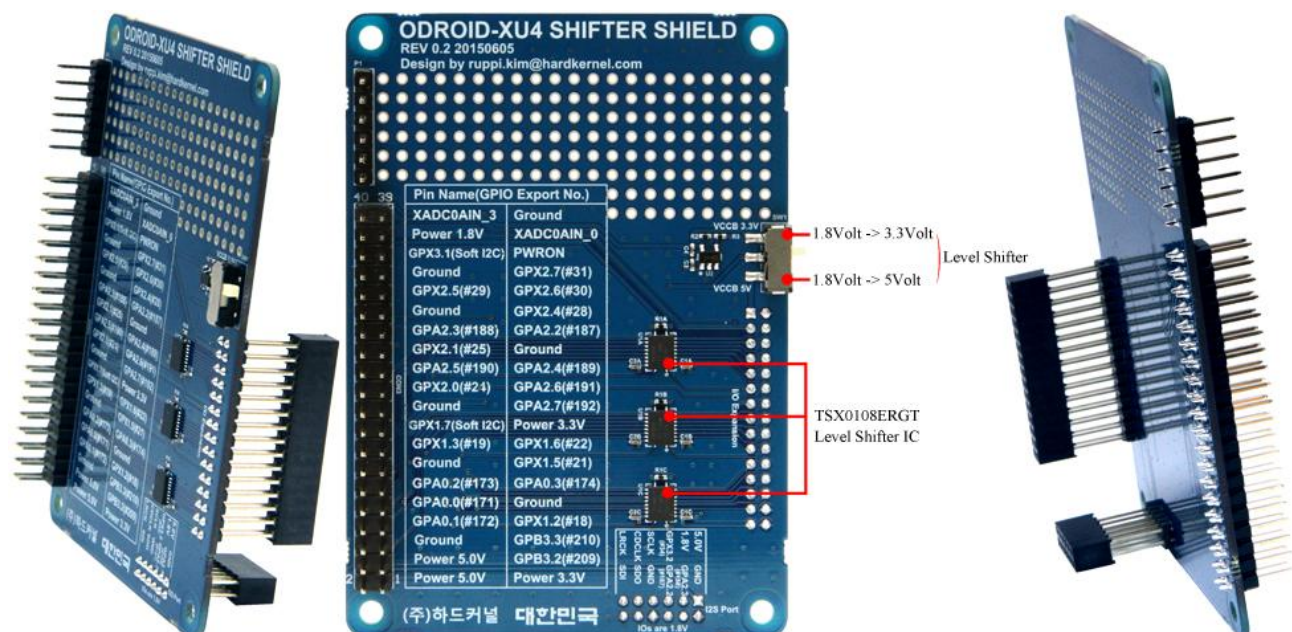
- PCB mechanical drawings (AutoCAD format)
http://dn.odroid.com/homebackup/XU4_SHIFTER_SHIELD_REV0.2_DXF.DXF

Package include

- XU4 Shifter Shield Board
- 4 x 19mm PCB spacer (Metal)
- 8 x 10mm PCB spacer (Plastic)

BOARD DETAIL

ODROID-XU4 SHIFTER SHIELD
REV 0.2 20150605
Design by ruppi.kim@hardkernel.com

Pin Name(GPIO Export No.)	
XADC0AIN_3	Ground
Power 1.8V	XADC0AIN_0
GPX3.1(Soft I2C)	PWRON
Ground	GPX2.7(#31)
GPX2.5(#29)	GPX2.6(#30)
Ground	GPX2.4(#28)
GPA2.3(#188)	GPA2.2(#187)
GPX2.1(#25)	Ground
GPA2.5(#190)	GPA2.4(#189)
GPX2.0(#24)	GPA2.6(#191)
Ground	GPA2.7(#192)
GPX1.7(Soft I2C)	Power 3.3V
GPX1.3(#19)	GPX1.6(#22)
Ground	GPX1.5(#21)
GPA0.2(#173)	GPA0.3(#174)
GPA0.0(#171)	Ground
GPA0.1(#172)	GPX1.2(#18)
Ground	GPB3.3(#210)
Power 5.0V	GPB3.2(#209)
Power 5.0V	Power 3.3V

VCCB 3.3V
VCCB 5V

I/O Expansion

5.0V
1.8V
GPX3.2 (#94)
GPA2.3 (#188)
GPA2.2 (#187)
GND

SDI
SDO
GND
SCLK
CDCLK
LRCK

I2S Port
IOs are 1.8V

(주)하드커널 대한민국