Products

Exynos5 Octa

ODROID-XU4

Amlogic S805

ODROID-C1+

Add-on Boards

CloudShell for XU4
Expansion Board
USB IO Board
XU4 Shifter Shield
Universal Motion Joypa
USB30 to SATA Bridge B
U3 IO Shield
U3 Shield Tinkering Ki

Power Supply & Battery

RTC Backup Battery
UPS2 for C1
UPS2 for U3
5V/2A Power Supply EU
5V/2A Power Supply Rou
5V/2A Power Supply US
5V/4A Power Supply EU
5V/4A Power Supply Rou
5V/4A Power Supply US
750mAh Battery

Cases

ODROID-C1+ Cases
ODROID-XU4 Cases
ODROID-C1 Case Black
ODROID-C1 Case Blue
ODROID-C1 Case Clear
ODROID-U3 Case
VuShell for VU7

Connectivity

IR Remote Controller
WiFi Module 3
WiFi Module 4
USB3.0 to Gigabit Ethe
Bluetooth Module 2
Ethernet Cable CAT6
USB GPS Module

Camera

USB-CAM 720P

Products

Exynos5 Octa > **ODROID-XU4 [ODROID-XU4]**

Feature | Technical Detail | FAQs

WIKI : http://odroid.com/dokuwiki/doku.php?id=en:odroid-xu4

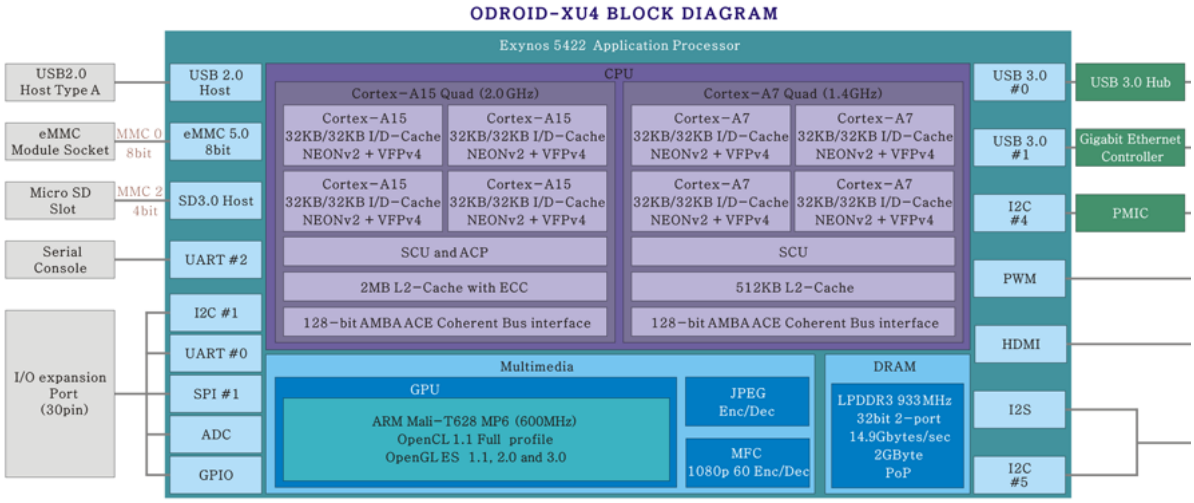
SCHEMATICS : http://dn.odroid.com/5422/ODROID-XU3/Schematics/XU4_MAIN_REV0.1.pdf

PCB mechanical drawings (AutoCAD format) : http://dn.odroid.com/homebackup/XU4_MAIN_REV0.1_DXF.DXF

Official Case Design File : http://www.hardkernel.com/main/products/prdt_info.php?g_code=G143522987777

Certificates : http://odroid.com/dokuwiki/doku.php?id=en:xu4_hardware#compliance_archives

BLOCK DIAGRAM



XU4 is fully software compatible with XU3 !
But XU4 is more compact, more affordable and more expandable.

What's different from XU3.
Pros
- Gbit Ethernet
- More Stable Dual USB 3.0 host ports
- More compact PCB size
- More IO ports (I2S/I2C/GPIO)

Cons
- No USB OTG
- No DP
- No Audio CODEC
- No Power Monitoring Sensors

BOARD DETAIL

- oCam : 5MP USB 3.0 Cam

Development

- C Tinkering Kit
- USB-UART Module Kit
- TTA20 to JTAG Board

Sound

- HiFi Shield for C1+
- USB Audio Adapter
- USB-SPDIF

Display

- ODROID-VU7
- 16x2 LCD + IO Shield
- C1 3.2inch TFT+Touchsc
- LED Matrix Shield
- ODROID-SHOW2

Sensor

- myAHRS+
- Weather Board 2

Cooler

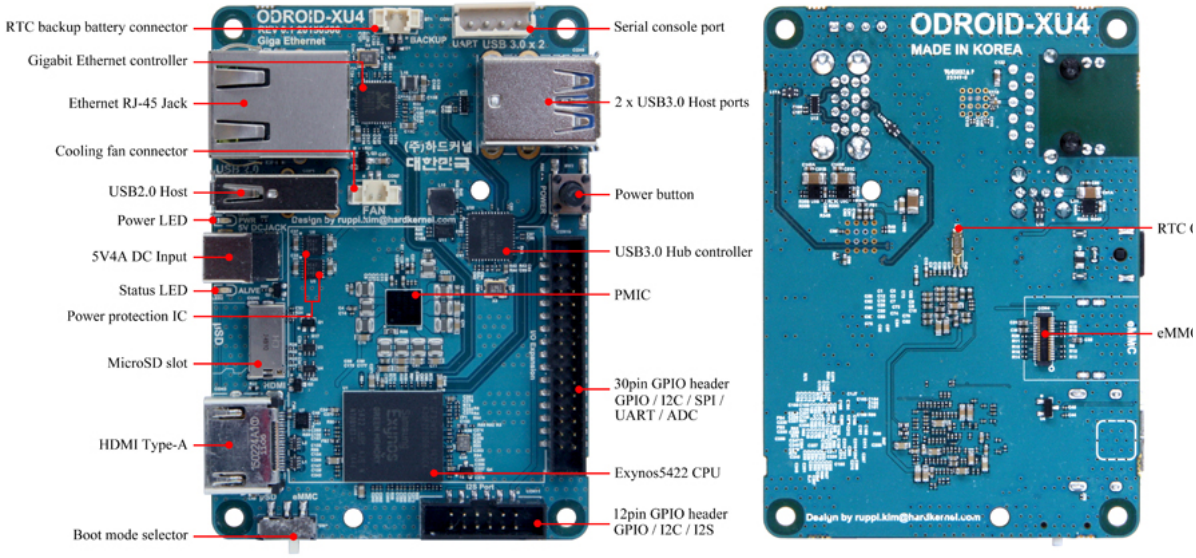
- C1 Heat Sink
- Cooling Fan U2
- Cooling Fan U3
- Cooling Fan X
- Cooling Fan XU4

Cables

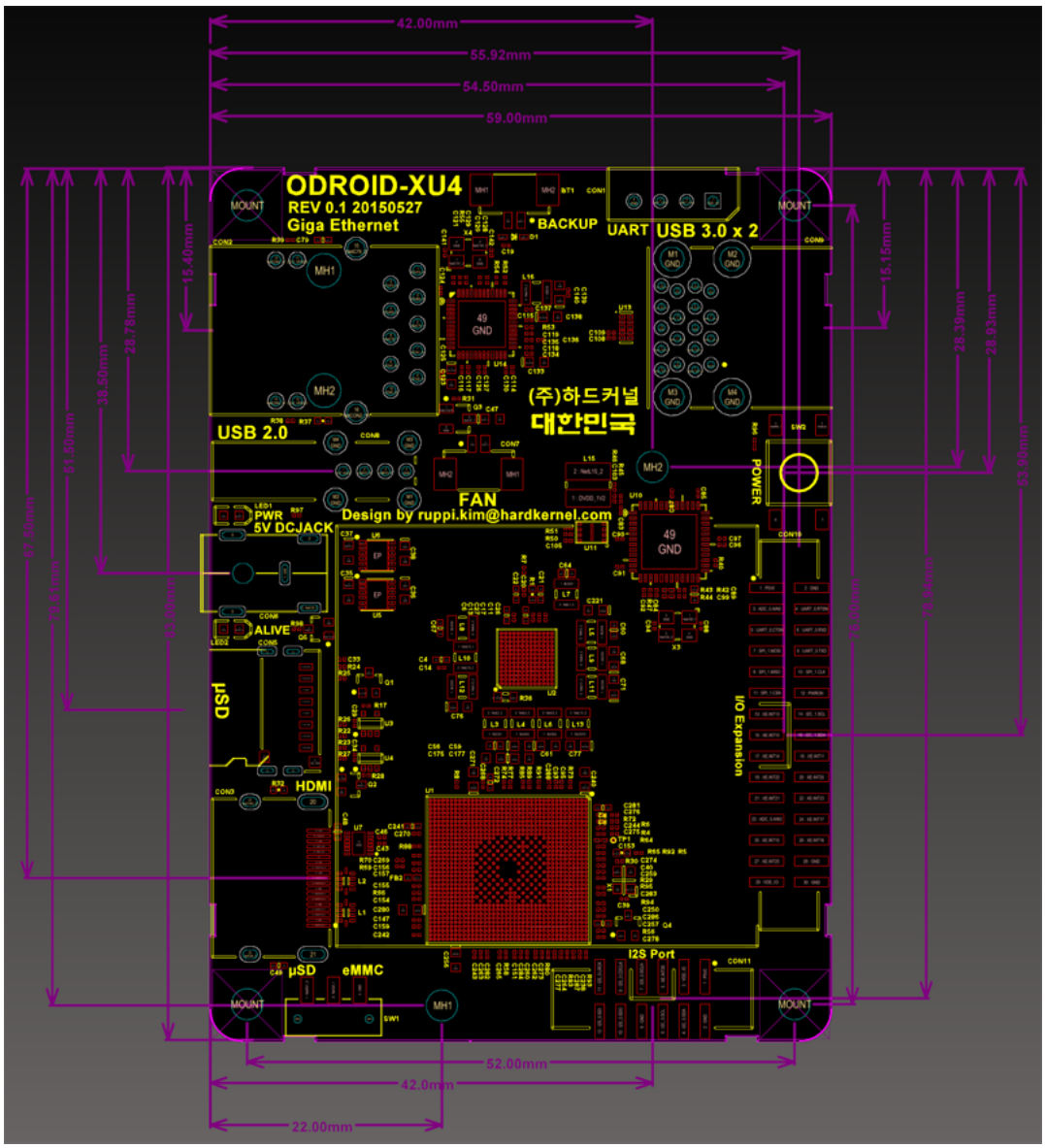
- HDMI Cable (Type A-A)
- USB3.0 Micro-A to Stan
- Micro USB Cable
- DC Plug Cable Assembly
- DC Plug Cable Assembly
- DC Plug Cable Assembly
- DC Plug Cable Assembly
- USB-DC Plug Cable 2.5m
- USB2.0 OTG Cable

OS Preinstalled Flash Memory

- 16GB MicroSD UHS-1 C1
- 16GB MicroSD UHS-1 C1
- 16GB MicroSD UHS-1 U L
- 16GB MicroSD UHS-1 XU4
- 8GB MicroSD UHS-1 C1 A
- 8GB MicroSD UHS-1 C1 L
- 8GB MicroSD UHS-1 U Li
- 8GB MicroSD UHS-1 XU4
- 64GB eMMC 5.0 Module X
- 64GB eMMC 5.0 Module X
- 64GB eMMC Module C1 An
- 64GB eMMC Module C1 Li
- 64GB eMMC Module U And
- 64GB eMMC Module U Lin
- 32GB eMMC 5.0 Module X
- 32GB eMMC 5.0 Module X
- 32GB eMMC Module C1 An
- 32GB eMMC Module C1 Li
- 32GB eMMC Module U And
- 32GB eMMC Module U Lin



PCB DETAIL



CPU	Samsung Exynos-5422 : Cortex™-A15 and Cortex™-A7 big.LITTLE processor with 2GByte LPDDR3 RAM
eMMC 5.0 module(Option)	16GB/32GB : Sandisk iNAND Extreme 64GB : Toshiba eMMC
PMIC	Samsung S2MPS11 9 high-efficiency Buck, 1 Buck-Boost regulators, RTC and 38 LDOs. Contact Samsung for more information

16GB eMMC 5.0 Module X
16GB eMMC 5.0 Module X
16GB eMMC Module C1 An
16GB eMMC Module C1 Li
16GB eMMC Module U And
16GB eMMC Module U Lin
8GB eMMC Module C1 And
8GB eMMC Module C1 Lin
8GB eMMC Module U Andr
8GB eMMC Module U Linu
8GB eMMC5.0 Module XU3
8GB eMMC5.0 Module XU3
eMMC Module Reader

Others

30pin and 12pin Header

Obsolete products

ODROID
ODROID-7 Full Package
ODROID-A4 Full Package
ODROID-PC Full Package
ODROID-S
ODROID-T
ODROID-VU
ODROID-A Full Package
ODROID-U3
ODROID-U2
ODROID-X2
Exynos4412 Prime CPU M
ODROID-E7 Full Package
ODROID-Q2
HDMI Cable (Micro, Typ
ODROID-XU3 Lite
10.1inch Touch+LCD Mod
ODROID-XU3
ODROID-XU
ODROID-X
ODROID-XU Lite
ODROID-C1
ODROID-Q
ODROID-XU+E
Exynos 4412 CPU module
ODROID-BaB Robot Kit
Smart Pow er
ODROID-Show
ODROID-UPS
ODUINO One
Weather Board
WiFi Module 2
Bluetooth Module
USB3.0 to SATA3 HDD/SS
B2B Connector
Debug Board
5M MIPI Camera Module
ODROID-W
W Connector Pack
W Docking Board
W Docking Board w ith T

Ethernet controller	Realtek RTL8153 The Realtek RTL8153-CG 10/100/1000M Ethernet controller combines an IEEE 802.3u compliant Media Access Controller (MAC), USB 3.0 bus controller. QFN-48 Package
USB 3.0 Hub	Genesys GL3521 The Genesys GL3521 is a 2-port, low-power, and configurable USB 3.0 SuperSpeed hub controller. QFN-48 Package
USB Load Switch	NCP380 Protection IC for USB power supply from OnSemi.
Input Power protector	NCP372 Over-voltage, Over-current, Reverse-voltage protection IC from OnSemi.
LED indicator	Blue LED to display the status of operating system
HDMI connector	Standard Type-A HDMI, supports up to 1920 x 1080 resolution
IO Ports	USB 3.0 Host x 2, USB 2.0 Host x 1, PWM for Cooler Fan, UART for serial console Ethernet RJ-45, 30Pin : GPIO/IRQ/SPI/ADC, 12Pin : GPIO/I2S/I2C
Storage slot	Micro-SD slot, eMMC 5.0 module connector
DC Input	5V / 4A input, Plug specification is inner diameter 2.1mm and outer diameter 5.5mm

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