

# ODROID-XU4

## Introduction

ODROID-XU4 is a new generation of computing device with more powerful, energy-efficient hardware and a smaller form factor.

Offering open source support, the board can run various flavors of Linux, including the latest Ubuntu 16.04 and Android 4.4 [KitKat](#) and 7.1 Nougat.

By implementing the eMMC 5.0, USB 3.0 and Gigabit Ethernet interfaces, the ODROID-XU4 boasts amazing data transfer speeds,

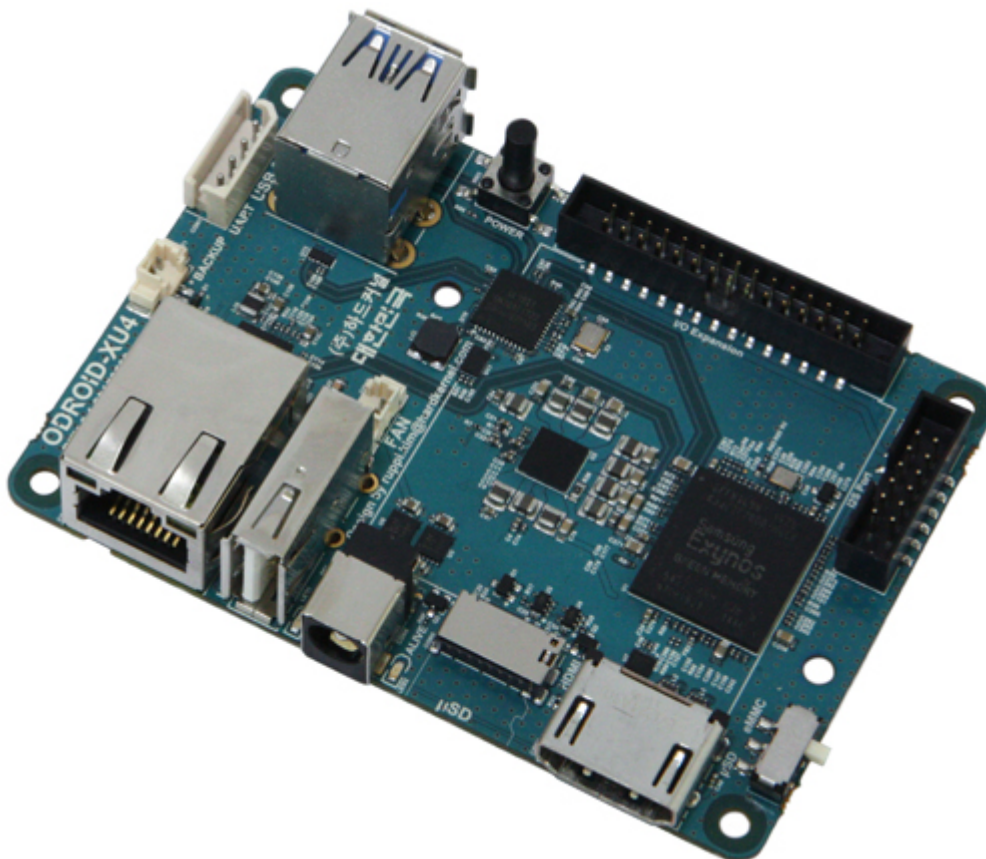
a feature that is increasingly required to support advanced processing power on ARM devices.

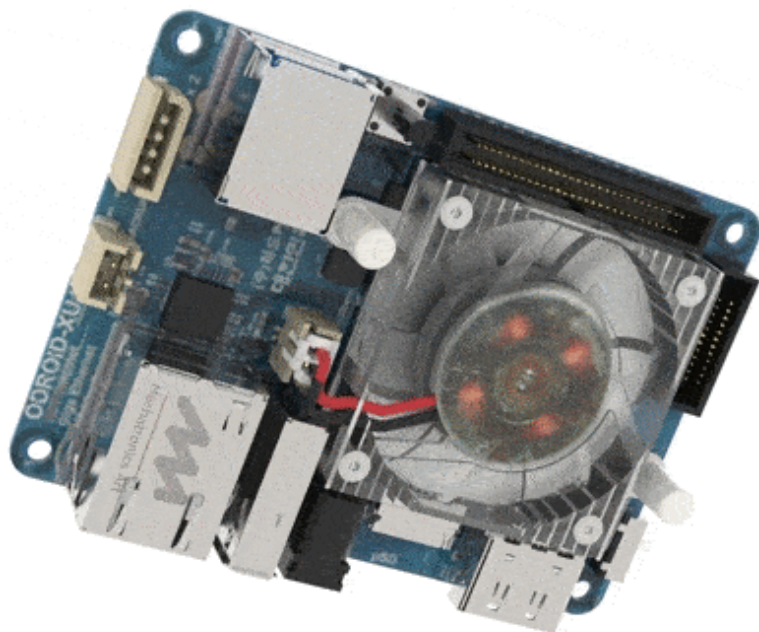
This allows users to truly experience an upgrade in computing, especially with faster booting, web browsing, networking and 3D games.

**The XU4 is fully software compatible with XU3!**

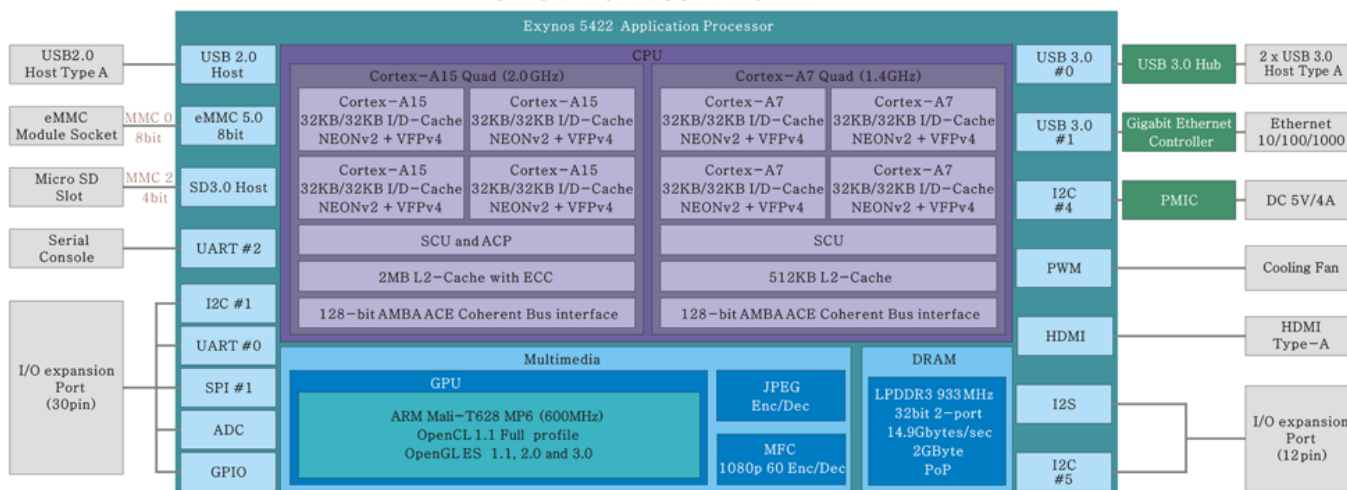
However, the XU4 is more compact, more affordable and more expandable.

**Download USER MANUAL for your ODROID-XU4** [XU4 User Manual](#)





ODROID-XU4 BLOCK DIAGRAM



## Beginner's Guide

- Install the OS and etc.... and **Getting Started!**

## Application Note

# Application Note

- Examples for use

## Hardware and Peripherals

- [Hardware information](#)
- [Boot Mode Configuration](#)
- [Benchmark of XU4 with Active Cooler and XU4Q with Passive Cooler](#)

## Software Platform

### Information

- [Partition Table and Booting Sequence](#)
- [Ubuntu Kernel update from 3.10 to 4.9](#)
- [Upgrade Android 4.4.4 to LineageOS 7.1.1](#)
- [GPIO Port register MAP](#)
- [OMV NAS Guide](#)
- [Ubuntu NAS Guide](#)
- [Build a Web Server](#)

### Build

- [U-boot](#)
- [Linux](#)
- [Android](#)
- [Android LineageOS](#)
- [Web Server](#)

## Software(OS) Release

Please read **\*\*THIS\*\*** once before you start to download and flashing S/W release on your ODROID device.

- [Linux/Ubuntu](#)
- [Linux/Ubuntu Kernel 4.9](#)
- [Linux/Ubuntu Kernel 4.14](#)
- [Android](#)
- [Third Party OS Images](#)

## Trouble Shooting

# Trouble Shooting

- How to solve common problems.
- [General FAQ](#)

## Expansion Boards and Accessories

- [XU4 Shifter Shield Board & GPIO Map](#)
  - [C Tinkering Kit with/without WiringPi & Python](#)
  - [16x2 LCD IO shield with the WiringPi](#)
  - [LED Matrix Shield](#)
  - [3.2inch TFT+Touchscreen Shield](#)
  - [3.5inch TFT+Touchscreen Shield](#)
- [CloudShell](#)
- [CloudShell2](#)
- [Weather Board](#)
- [USB GPS Receiver](#)
- [Stereo Boom Bonnet](#)
- [oCam](#)
- [VU Series \(VU5, VU7, VU7 Plus\)](#)

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