

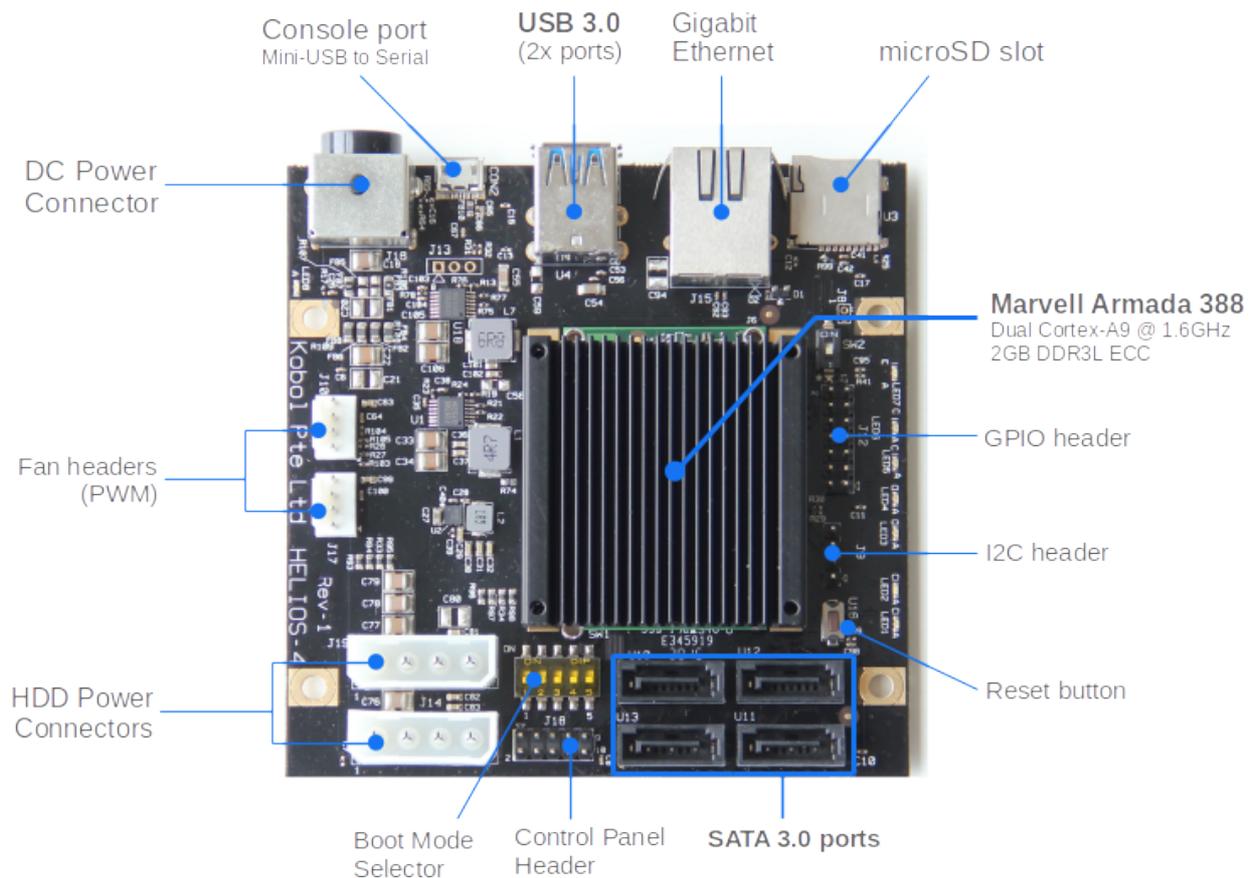


# Technical Specifications

## Helios4 is the perfect recipe of high speed interfaces to build a real NAS.

The Marvell ARMADA® 388 is a robust energy-efficient System on Chip (SoC) with very powerful processing abilities especially suited for headless data processing, networking and storage. This Dual-core ARM Cortex-A9 CPU clocked at 1.6 Ghz integrates a Cryptographic and XOR DMA engines to provides the best level of performance for NAS functionality.

Helios4 is the only ARM based board on the market that offers 4x SATA 3.0 ports. This is the key feature that makes this platform the first single board computer specially designed for Network Attached Storage. Enjoy up to 48TB of storage (4x Disk of 12TB) while insuring enough throughput to share your data across your entire home or small office network.



## Hardware Specifications

### CPU

CPU Model	Marvell Armada 388 (88F6828) ARM Cortex-A9
CPU Architecture	ARMv7 32-bit
CPU Frequency	Dual Core 1.6 Ghz
Additional Features	- RAID Acceleration Engines - Security Acceleration Engines - Wake-on-LAN

### Memory

System Memory	2GB DDR3L ECC
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### HDD Interfaces

SATA 3.0 Ports	4
Max Capacity	48 TB (12 TB HDD x 4)

### External Interfaces

RJ-45 1GbE LAN Port	1
USB 3.0	2
microSD (SDIO 3.0)	1

### Developer Interfaces

GPIO	12
I2C	1
UART	1 (via onboard Micro-USB converter)

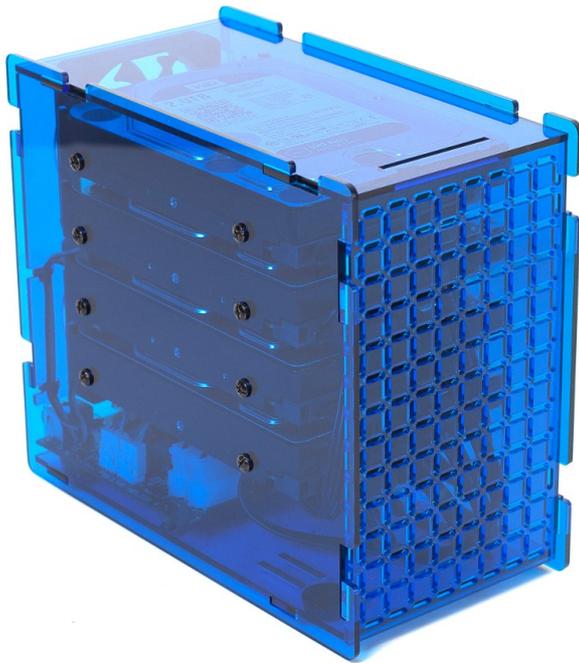
### Appearance

Board Dimension	100mm x 100mm
Board Weight	120gr
Casing Dimention (H x W x D)	182 mm x 107 mm x 210 mm
Casing Weight (without HDD)	450gr
Casing Material	Colored PMMA

### Others

Boot Mode Selector	- SPI - SD/eMMC - UART - SATA
SPI NOR Flash	32Mbit onboard
PWM FAN	2 (70 mm x 70 mm )
DC input	12V / 8A

## Pictures



## Software

**armbian**  
universal operating system

 **openmediavault**  
The open network attached storage solution

 **SYNCLOUD**

**Operating System:** Linux Debian and Ubuntu

**Kernel Version:** 4.4 or 4.13

**U-Boot Version:** 2013 or 2017

**Software Partners:**

Armbian - Debian and Ubuntu for ARM board.

OpenMediaVault - Linux NAS turn-key solution.

Syncloud - Cloud services at your premises.