

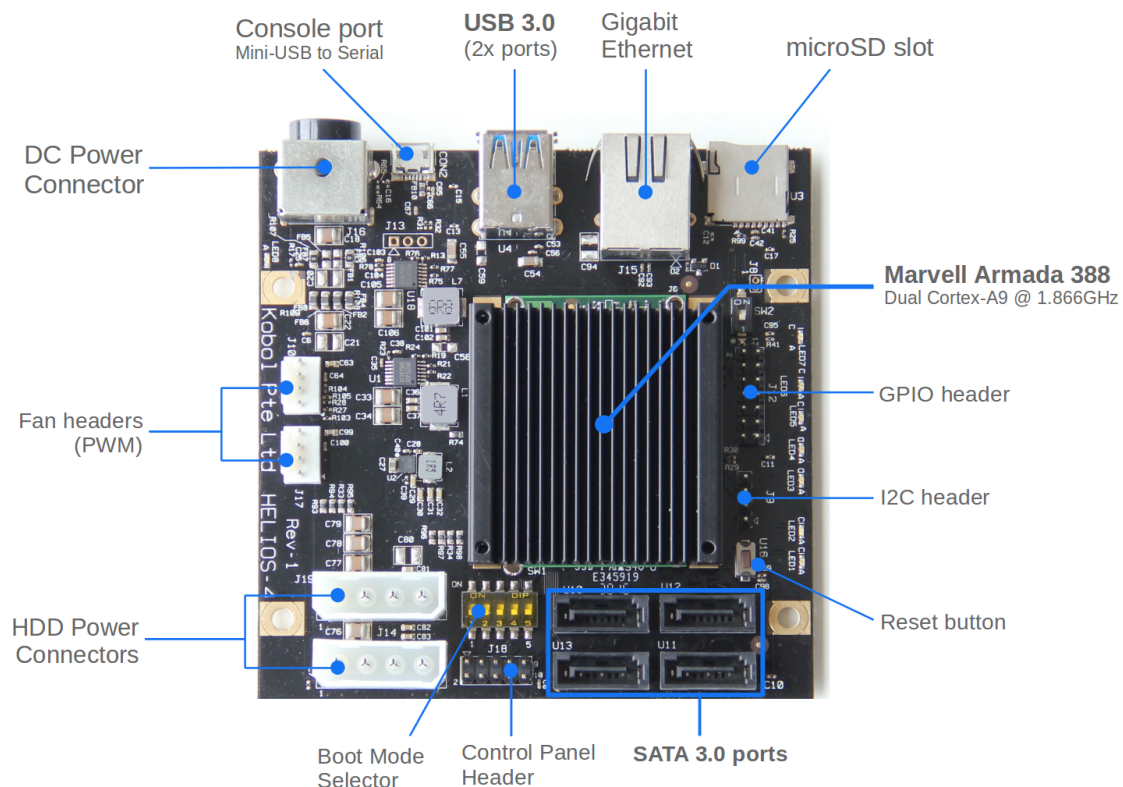


Technical Specifications

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

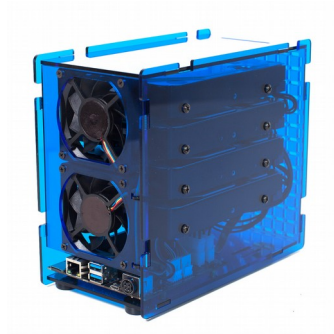
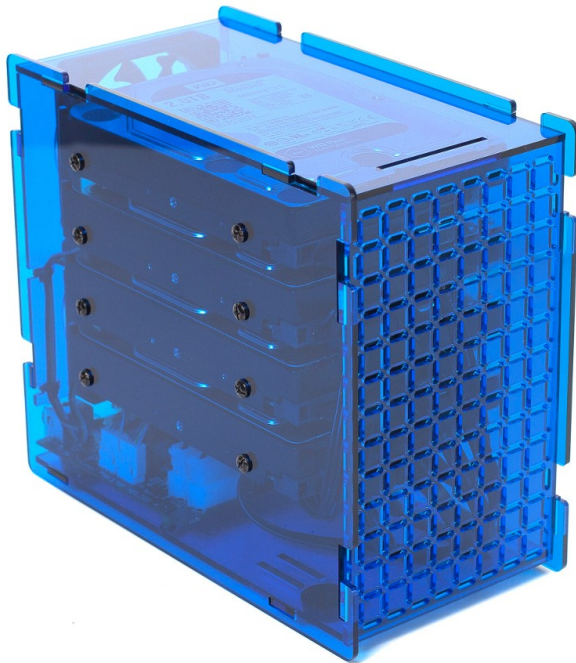
The Marvell ARMADA® 388 is a robust energy-efficient System on Chip (SoC) with very powerful processing abilities especially suited for headless data processing, networking and storage. This Dual-core ARM Cortex-A9 CPU clocked at 1.866 Ghz integrates a Cryptographic and XOR DMA engines to provides the 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 40TB of storage (4x Disk of 10TB) while insuring enough throughput to share your data across your entire home or small office network.



Hardware Specifications	
CPU	
CPU Model	Marvell Armada 388 (88F6228) ARM Cortex-A9
CPU Architecture	ARMv7 32-bit
CPU Frequency	Dual Core 1,866GHz
Additional Features	- RAID Acceleration Engines - Security Acceleration Engines
Memory	
System Memory	1GB / 2 GB DDR3L
HDD Interfaces	
SATA 3.0 Ports	4
Max Capacity	40 TB (10 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)
Apparence	
Board Dimension	100mm x 100mm
Casing Dimention (H x W x D)	182 mm x 107 mm x 210 mm
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
LED	8 LED (7x Green, 1x Red) controlled by GPIO
Control Panel	1 (optional)
Packaging	
Content	Basic Kit : - Helios4 Board - SATA Data Cable (4x) - Moles to dual SATA Power Cable (2x) - AC Adapter (12V/8A) - AC Plug (EU, UK or US) Full Kit : - Helios4 Board - Casing - 70mm PWM ball bearing FAN (2x) - SATA Data Cable (4x) - Moles to dual SATA Power Cable (2x) - Assembly kit - AC Adapter (12V/8A) - AC Plug (EU, UK or US)
Weight (without HDD)	Basic Kit : 900 Gr Full Kit : 1.5 Kg

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 3.10

Software Partners:

Armbian - Debian and Ubuntu for ARM board.

OpenMediaVault - Linux NAS turn-key solution.

Syncloud - Cloud services at your premises.