

MACCHIATObin Double Shot Datasheet

Marvell ARMADA A8040™ based development board



Overview

The Marvell MACCHIATObin is a first-of-its-kind Cost-Effective and High-Performance networking community development board targeting OpenDataPlane (ODP), OpenFastPath (OFP) and ARM network functions virtualization (NFV) ecosystem communities.

With a software offering that include a fully open source ODP implementation, U-Boot 2015.x, mainline U-Boot, UEFI EDK2, Linux LTS kernel 4.4.x, mainline Linux, Yocto 2.1 and netmap, the Marvell MACCHIATObin is an optimal platform that community developers and Independent Software Vendors (ISVs) can use for development around ODP and OFP and for delivering ARM based VNFs.

MACCHIATObin Single Shot Highlighted Features

- ✿ Based on Marvell's A8040 Quad Core
- ✿ Arm Cortex A72 processor (up to 2Ghz)
- ✿ Up to 16GB DDR4
- ✿ Dual 10GbE via SFP or RJ45
- ✿ 3 x SATA 3.0 connectors
- ✿ Feature rich



MACCHIATObin

System Specifications

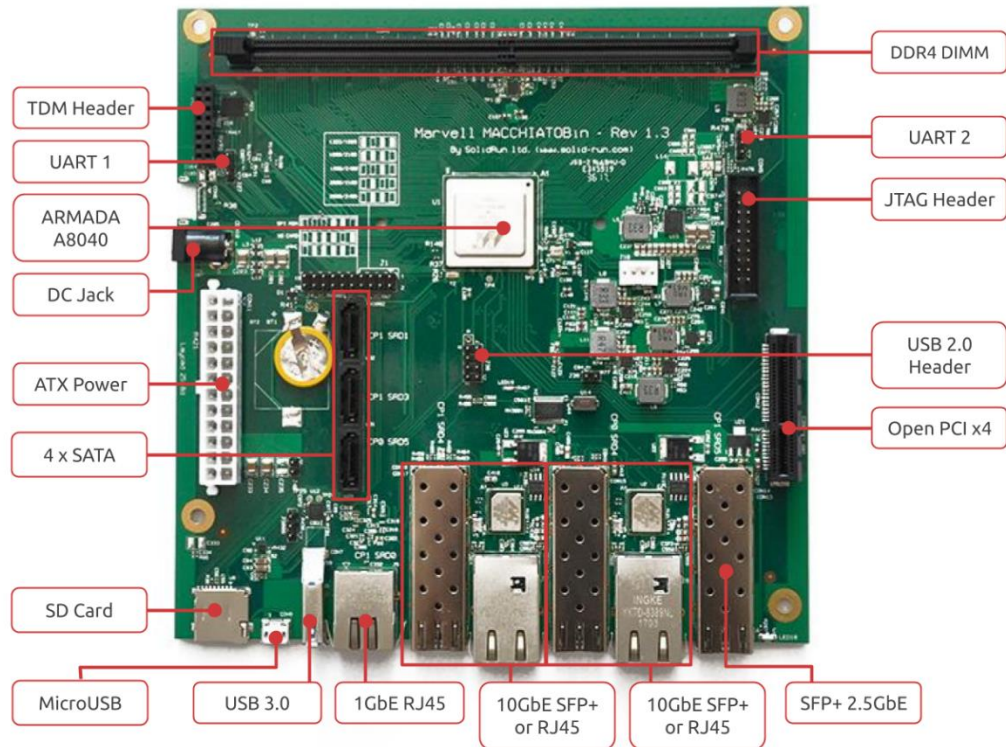
MACCHIATObin Double Shot															
Processor	Marvell A8040 Arm Cortex A72 quad-core (2GHz)														
Memory and Storage	Up to 16GB DDR4 DIMM 3 x SATA 3.0 MicroSD eMMC														
Network	2 x 10GbE via RJ45 or SFP 1 x 2.5GbE SFP 1 x 1GbE RJ45														
Connectivity	PCIe x4 gen 3.0 (open slot) USB 2.0 header (internal) USB 3.0 connector														
I/O	UART header JTAG header TDM header MicroUSB for debug (UART over USB)														
Power	12V input via DC jack / ATX type power connector														
Software	Mainline Linux Linux Kernel 4.4.x Mainline U-Boot U-Boot 2015.11 UEFI (Linaro UEFI tree) Yocto 2.1 SUSE Linux netmap DPDK OpenDataPlane (ODP) OpenFastPath														
Environment	<table border="0"> <tr> <td>Ambient temp. (commercial):</td> <td>0°C to 70°C</td> </tr> <tr> <td>Enclosed ambient temp. (commercial):</td> <td>0°C to 40°C</td> </tr> <tr> <td>CPU die temp. (commercial):</td> <td>0°C to 105°C</td> </tr> <tr> <td>Ambient temp. (industrial):</td> <td>-40°C to 85°C</td> </tr> <tr> <td>Enclosed Ambient temp. (industrial):</td> <td>-40°C to 55°C</td> </tr> <tr> <td>CPU die temp. (industrial):</td> <td>-40°C to 105°C</td> </tr> <tr> <td>Humidity (non-condensing):</td> <td>10% - 90%</td> </tr> </table>	Ambient temp. (commercial):	0°C to 70°C	Enclosed ambient temp. (commercial):	0°C to 40°C	CPU die temp. (commercial):	0°C to 105°C	Ambient temp. (industrial):	-40°C to 85°C	Enclosed Ambient temp. (industrial):	-40°C to 55°C	CPU die temp. (industrial):	-40°C to 105°C	Humidity (non-condensing):	10% - 90%
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CPU die temp. (industrial):	-40°C to 105°C														
Humidity (non-condensing):	10% - 90%														
Dimensions (WxL)	170mm x 170mm (Mini ITX)														
Enclosure	Optional metal enclosure														

Available SKUs for MACCHIATObin Double Shot

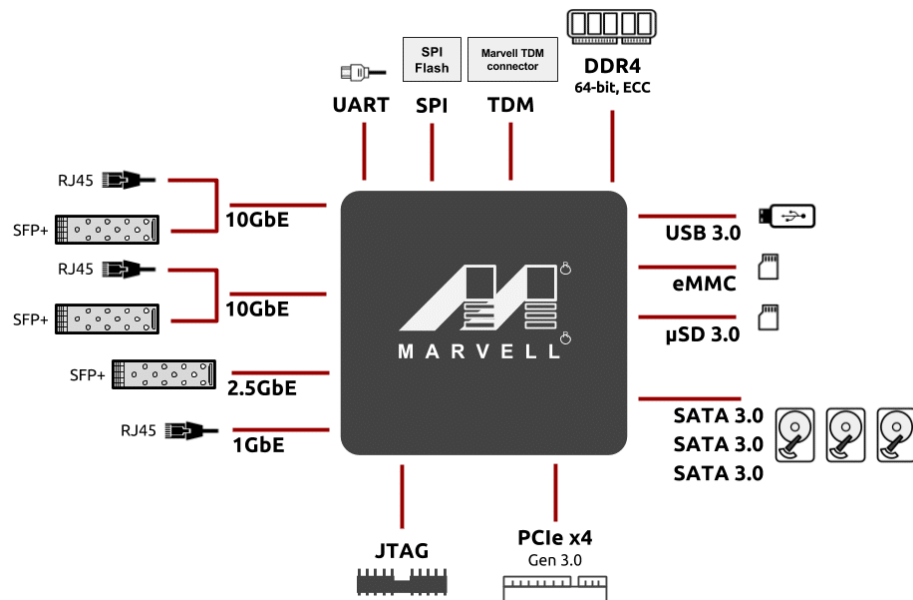
SKU	Description
SRM8040S00D04GE008D00CH	MACCHIATObin Double Shot 4GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRM8040S00D16GE008D00CH	MACCHIATObin Double Shot 16GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink

(*) Different configurations available for MOQ

MACCHIATObin Double Shot Layout



MACCHIATObin Double Shot Diagram



Safety Notice

- a. This device is to be used with Certified Power adaptor with output rated 12VDC, 1.5A. Power adapter must meet Limited power source (LPS) requirements.
- b. Power adapter must meet local safety standards and requirements based on product intended use.
- c. Power adapter must meet Operating environment conditions as specified above.

Disposal

Follow local regulations regarding disposal of the product. Dispose of your product in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited.

Help us protect the environment- recycle!

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Support

For technical support please visit:

Developer center – <https://developer.solid-run.com/>

For direct support please contact us at: support@solid-run.com

Documentation

Additional documentation available at:

<https://developer.solid-run.com/products/macchiatobin-single-double-shot/>