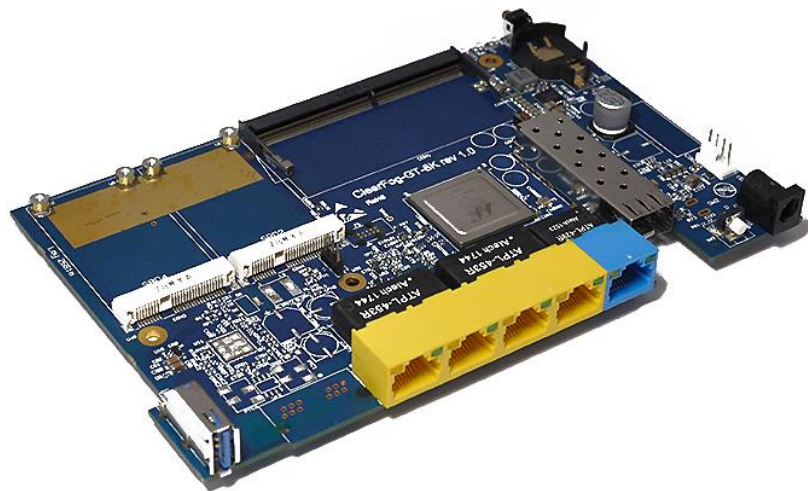


ClearFog GT 8K

Datasheet

ARMADA A8040 based networking SBC | Rev. 1.1



Overview

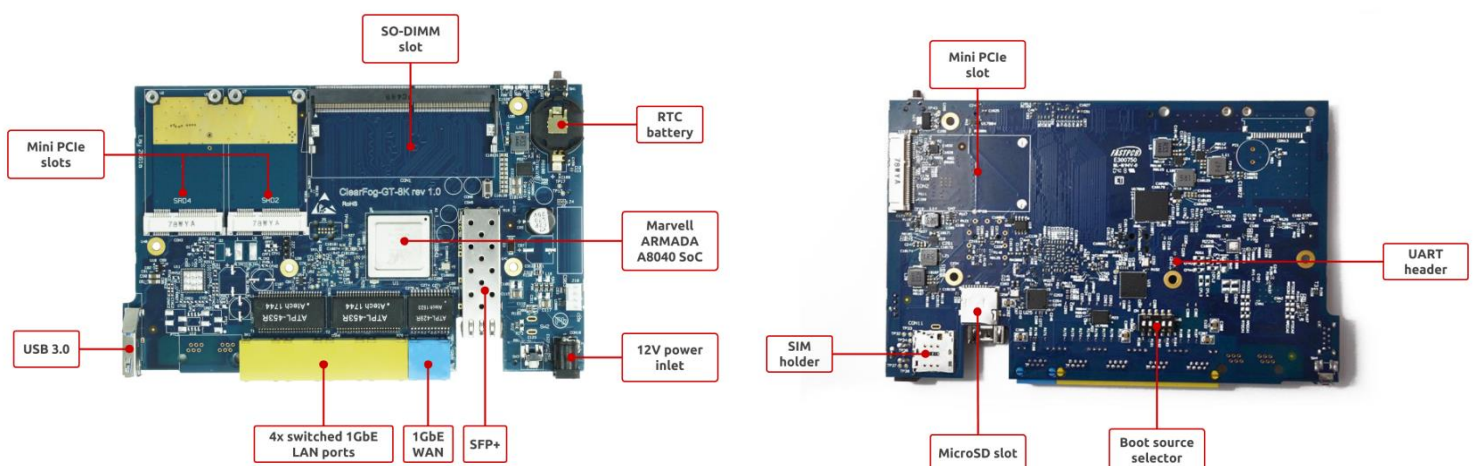
Harnessing the powerful processing and networking abilities of Marvell's ARMADA A8040, ClearFog GT 8K offers vast application potential as a versatile networking solution with a large variety of interfaces.

ClearFog GT 8K features an array of 4 1GbE copper LAN connections (with 2.5G uplink to SoC), a 1GbE WAN interface, and an SFP+ connector (up to 10GbE). Other features include USB 3.0 port, 3 mPCIe, up to 16GB DDR4 memory, eMMC, optional M.2 support via adapter, microSD, GPIO header, and supports Linux Kernel 4.4x, Ubuntu 16.04, and Google IoT Core (for easy connection to the Google Cloud Platform).

ClearFog GT 8K Highlighted Features

- ❖ Based on Marvell's A8040 Quad Cortex A72 ARM processors
- ❖ Up to 16GB DDR4 (64 bits wide)
- ❖ Full virtualization support
- ❖ 4 x switched LAN ports
- ❖ Linux enterprise support

ClearFog GT 8K Layout



System Specifications

ClearFog GT 8K	
Processor	Marvell ARMADA A8040 quad-core Cortex ARM A72 (up to 2Ghz)
Memory & Storage	Up to 16GB DDR4 (64 bit) M.2 (optional support via adapter) MicroSD eMMC
Connectivity & Interfaces	4 x 1GbE switched LAN (RJ45) 1 x 1GbE WAN (RJ45) 3 x mPCIe (USB 2.0 + PCIe) 1 x USB 3.0 1 x SFP+ (up to 10GbE)
I/O	GPIO header Indication LEDs User push buttons UART header for debug
OS	Linux kernel 4.4x Ubuntu 16.04 Google IoT Core
Power	12V input DC jack
Environment	Ambient temperature: 0°C to 70°C Enclosed Ambient temperature: 0°C to 40°C CPU die temperature: 0°C to 105°C Humidity (non-condensing): 10% - 90%
Dimensions (WxL)	177mm X 110mm
Enclosure	TBA

Available SKUs for ClearFog GT 8K

SKU	Description
SRM8040S64D16GE008V11GH	ClearFog GT 8K 8GB eMMC 16GB DDR4 R1.1
SRM8040S64D00GE008V11GH	ClearFog GT 8K 8GB eMMC R1.1

(*) Different configurations available for MOQ

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:

Development 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/clearfog-gt-8k/>