

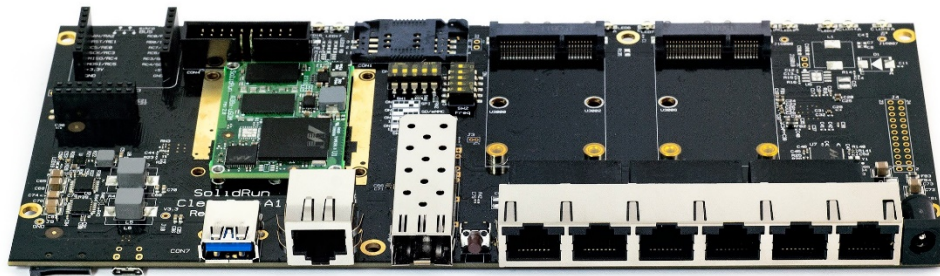


Marvell ARMADA

ClearFog Pro

Carrier Board for ARMADA SoM (System-On-Module)

Rev 2.1



Simple. Robust. Computing Solutions

SolidRun Ltd.

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Overview

Introducing the ClearFog family, a flexible IoT gateway platform which harnesses the full potential and robust processing power of the ARMADA SoC – providing a modular powerful board with endless possibilities. With the ARMADA processor at its core, the ClearFog offers both optimal modulation and fast processing speeds, cutting development costs, TTM and simplifying production process.

ClearFog Pro Highlighted Features

- ✿ Based on Marvell's ARMADA A388 SoC
- ✿ Up to 2GB memory size
- ✿ Optimized for networking, routing and storage applications
- ✿ Optional industrial metal enclosure, perfect for OEMs
- ✿ Feature rich
- ✿ Broad SW support

System Specifications

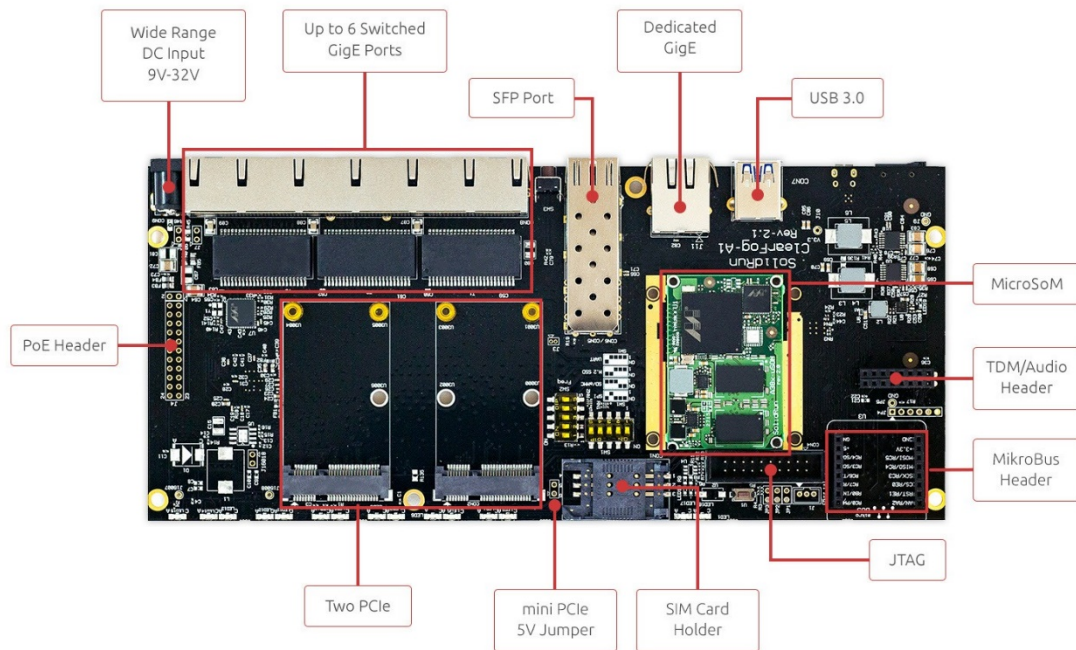
ClearFog Pro	
SoM Model	ARMADA based A388
Memory and Storage	1GB (up to 2GB) M.2 uSD / 8GB eMMC* (Optional)
Connectivity	2xmSATA/mPCIe** 1xUSB 3.0 port 1xPort dedicated Ethernet 6xPort switched Ethernet 1xSFP
I/O and Misc	Analog Audio / TDM module support GPIO Header (mikroBUS) Indication LEDs User Push Buttons PoE expansion header RTC Battery FTDI (Console Only)/ Debug Header JTAG Header
Power	Wide range 9V- 32V Advanced Power Control Fan Control
Software	Linux Kernel 3.x and 4.x, OpenWrt, Yocto
Dimensions (WxL)	225mm×100mm
Enclosure	Optional Metal Enclosure

(*) Assembly option on the SoM.

(**) Configurable via u-boot.

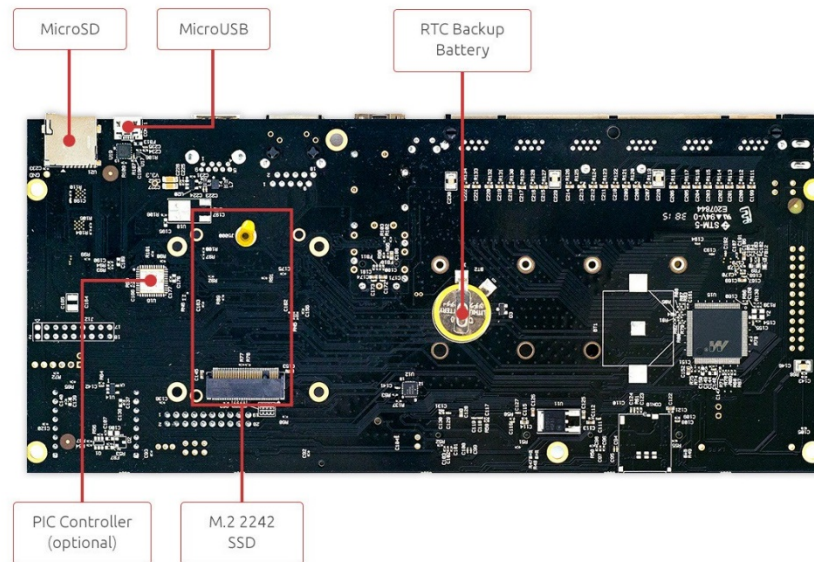
Interfaces

Top View



Interfaces

Bottom View



Available SKUs for ClearFog Pro Carrier

SKU	Description
SRCFCPE000CV21	ClearFog Pro Com. Temp R2.1
SRCFCPE000IV21	ClearFog Pro Ind. Temp R2.1

SKUs for kits*

SKU	Description
SRM6828S00D01GE000P00CH	A388 Dual ClearFog Pro No SSD 1GB DDR No eMMC Com. Temp R00 Inc. Heatsink
SRM6828S00D01GE008P00CH	A388 Dual ClearFog Pro No SSD 1GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRM6828S00D01GE000P00IH	A388 Dual ClearFog Pro No SSD 1GB DDR No eMMC Ind. Temp R00 Inc. Heatsink
SRM6828S00D01GE008P00IH	A388 Dual ClearFog Pro No SSD 1GB DDR 8GB eMMC Ind. Temp R00 Inc. Heatsink
SRM6828S00D01GE000P00CE	A388 Dual ClearFog Pro No SSD 1GB DDR No eMMC Com. Temp R00 Inc. Enclosure
SRM6828S00D01GE008P00CE	A388 Dual ClearFog Pro No SSD 1GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRM6828S00D01GE000P00IE	A388 Dual ClearFog Pro No SSD 1GB DDR No eMMC Ind. Temp R00 Inc. Enclosure
SRM6828S00D01GE008P00IE	A388 Dual ClearFog Pro No SSD 1GB DDR 8GB eMMC Ind. Temp R00 Inc. Enclosure

(*) Kits consist of:

1. Carrier Board
2. System on Module
3. Heatsink and/or Enclosure

Different configurations are available per 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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For technical support please visit:

Our Wiki – <http://wiki.solid-run.com/>

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

Documentation

Additional documentation available at:

<http://wiki.solid-run.com/doku.php?id=products:a38x:documents>