SolidRun's SOM:

ClearFog | SolidRun-SOM ARMADA 388

SolidRun's leading micro System on a Module (SOM) family is designed for embedded systems product developers and OEMs. SolidRun packed a Marvell ARMADA 388 SoC (System-on-Chip), memory subsystem, I/O and interconnected subsystems into a single ultra- compact system-on-module.

The tightly packed SOM, gives engineers a unique set of off-the-shelf design features and benefits. SolidRun's SR-SOM-ARMADA 388 delivers faster time to market, lowers design costs, and reduces design risks.

> Reduces TTM and Design Risks

> Provides Complete Design Freedom

> Extremely Small SOM (35mm×50mm)

> Lowers Costs

MARVELL®

RoHS COMPLIANT
Pb lead-free

Applications

NAS (Network Attached Storage)

› WEB Servers

› Printers Servers

› Network Appliances

› Operators

Security

› VPN

› Server Security

› Firewall

› Cyber

› Encryption

WAP (WiFi Access Point)

› Location-Based Services

› Enterprise/ SMB Network solutions

› Financial Services

› Travel Services

› Home Automation

Surveillance

› Portable Proxy Recorders

› DVR

› NVR

› Cameras connected to the cloud

Monitoring & Control

› Home Automation, Smart Grid

› Health

› Transportation & Aviation

› Environmental Sensors

SOM A388

System on Chip	Marvell ARMADA 388 (88F6828)
Processor Core	Dual core ARM Cortex A9
Processor Speed	Up to 1.6GHz in commercial grade Up to 1.3GHz in industrial grade
Floating Point	✓
SIMD	Neon
L1 Cache	32KB per core
L2 Cache	1MB shared
Memory Type	32 bit DDR3L
ECC	Optional
Memory Size	1GB
SPI Flash	32Mbit
eMMC	Optional
10/100/1000 Mbps MAC	3 ports
On SOM GE PHY	1
SDIO	✓
I2S / SPDIF / TDM	✓
USB 2.0	3
RTC Support (battery on carrier)	✓
GPIO pins	✓
Power Managements Signaling	Optional
JTAG	✓
Total MUXED SERDES	6
SATA	4xGen III
PCIE 2.0 x1	4xGen II
USB 3.0 (Requires USB 2.0 port too)	2
QSGMII	1xQSGMII (3 MACs)
U-Boot	✓
Linux Kernel 3.x	✓
OpenWrt	✓
Yocto	✓
Temperature Range ***	Commercial (0°C ~ 70°C ambient) Industrial (-40°C ~ 85°C ambient)
Supply Voltage	3.3V - 5V
I/O Voltage	3.3V, 1.8V
SOM Interface	Hirose DF40 connectors 1.5mm, 3mm mating height
Dimensions (WxL)	35mm x 50mm

* Optional means not supported by default. Can be supported per customer's request.

** Refer to the SR-Armada-SOM-Refence-Manual for complete table.

*** ARMADA 38x SoC maximum die temperature must be below 115°C in both Commercial and Industrial grades.

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