



Specifications

Form Factor	SMARC™ V1.0
CPU	NXP i.MX 6Dual/6Solo Cortex™-A9 processor Up to 800MHz with 512KB L2 cache
System Memory	I-grade 1GB DDR3 on board
Display	Supports 18/24-bit parallel LCD & LVDS Interface (Up to 1366 x 768) Supports HDMI interface (1920 x 1080)
Video Codec	Multi-format HD1080 video Decode and Encode
Audio Interface	I ² S, SPDIF
LAN	1x GbE LAN
USB	2x USB 2.0 port & 1x USB OTG Interface
Image Capture Interface	CSI Interface for MIPI camera
Serial Interface	4x UART, 1x SPI Interface
Media Interface	2x High-speed MMC/SDIO (MMC 8-bit, SDIO 4-bit)
PCI-E	1x PCI-E interface
SATA	1x SATA 2.0 (Dual only)
GPIO	12x GPIO
I ² C	3x I ² C *(4x I ² C in F6SO1)
CAN Bus	2x CAN2.0B
Dimensions	82mm x 50mm (3.2" x 2")
Environment	Humidity: 0 % to 90 % RH at 60° C (non-condensing) Shock: Non-Operating: 1G, 15 mins (x-, y-, z-axis) Vibration: Non-operating: 3Hz to 500Hz, 15 mins
Operating Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
OS Support	Ubuntu Linux 11.10 Android 4.3
Certification	CE/ FCC Class A

Features

- SMARC™ Small Form Factor (82mm x 50mm) SoM
- i.MX automotive-grade 6Dual/6Solo core 800MHz CPU
- 1080p hardware encode/decode
- OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- 1GB DDR3, 4GB eMMC on board
- Supports 10/100/1000 Mbit Ethernet
- Supports 24-bit parallel LCD, LVDS & HDMI
- Supports Linux 3.0, Android 4.3
- Wide-range operating temperature (-40°C~85°C)

Ordering Information

RM-F6DU1-SMC	RISC System on Module, 82mm x 50mm, SMARC™ small form factor with onboard NXP i.MX 6Dual 800MHz CPU, 1GB DDR3, 4GB eMMC, -40°C~85°C operating temperature
RM-F6SO1-SMC	RISC System on Module, 82mm x 50mm, SMARC™ small form factor with onboard NXP i.MX Solo 800MHz CPU, 1GB DDR3, 4GB eMMC, -40°C~85°C operating temperature
F6DU1-HSD	Heat spreader for F6DU1
F6SO1-HSD	Heat spreader for F6SO1

Dimensions

