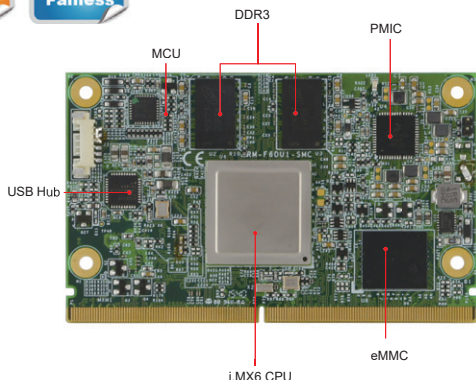




Specifications

CPU	NXP i.MX 6Dual/6Solo Cortex-A9 processor
PCH	N/A
Memory	System memory: I-grade 1GB DDR3 on board Data memory: 4GB eMMC on board
BIOS	N/A
Watchdog Timer	N/A
H/W Monitor	N/A
Storage Device Interface	2x High-speed MMC/SDIO (MMC 8-bit, SDIO 4-bit)
Expansion Slots	SMARC connector to carrier board
Graphics Controller	OpenGL ES 2.0, OpenVG 1.1 hardware accelerators
Video Output	18/24-bit parallel LCD & LVDS interface (up to 1366 x 768) HDMI interface (1920 x 1080)
Ethernet	1x GbE LAN (10/100/1000 Mbit)
I/O Chipset	N/A
Serial Port	4x UART, 1x SPI
USB 2.0	2x USB 2.0 port, 1x USB OTG interface
USB 3.X	N/A
Serial ATA	1x SATA 2.0 (Dual only)
Audio	I ² S, SPDIF
TPM	N/A
Others	12x GPIO, 3x I ² C (4x I ² C in F6SO1), 2x CAN2.0B, 1x PCI-E interface Image capture: CSI interface for MIPI camera Video codec: Multi-format HD1080 decode & encode Shock: non-operating 1G, 15 mins (x/y/z-axis); Vibration: non-operating 3 Hz to 500 Hz, 15 mins
Dimensions (L X W)	82mm x 50mm (3.2" x 2")

Features

- NXP Arm® i.MX 6Dual/6Solo Cortex-A9 800MHz processor
- 1GB DDR3, 4GB eMMC on board
- 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
- 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)

Power Consumption	N/A
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Storage Temperature	N/A
Relative Humidity	0% ~ 90% RH @60°C (non-condensing)

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.MX6 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 and Drawing

