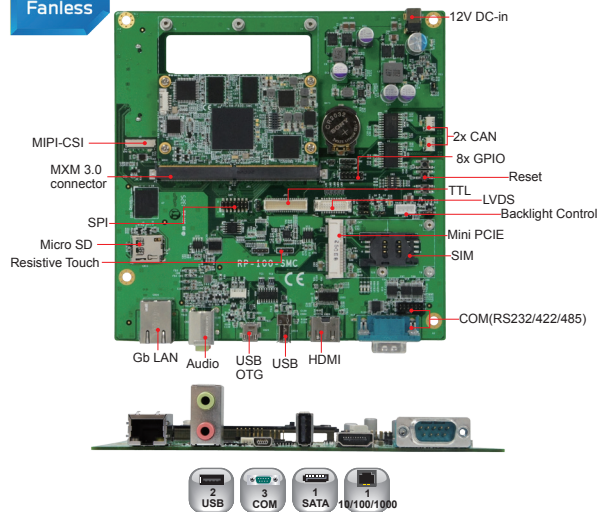
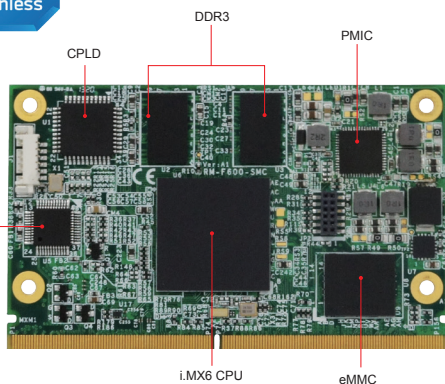


## RM-F600-SMC series

SMARC Module with Freescale i.MX6 Cortex-A9 1GHz SoC

## RP-100-SMC

Carrier Board for SMARC Modules



01 RISC Platforms

02 Embedded Systems

03 Motherboards

04 Disk-Size SBCs

05 CPU Cards

06 CPU Modules

### Features

- SMARC Small Form Factor (82mm x 50mm) SoM
- i.MX 6 Dual Lite / Dual 1GHz processor
- 1080p hardware encode/decode
- OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- 1GB DDR3, 4GB eMMC on board
- 10/100/1000 GbE
- Supports 24-bit parallel LCD, LVDS & HDMI
- Supports Linux 3.0, Android 4.3

### Specifications

Form Factor	SMARC™ (82mm x 50mm)
CPU	Freescale i.MX6 (Dual Lite/Dual) Cortex-A9 CPU
System Memory	1GB DDR3 on board
Storage	4GB eMMC on board
Display	Supports 18/24-bit parallel LCD & LVDS Interface (1366 x 768 by max) Supports HDMI interface(1920x1080)
Video Codec	Multi-format HD1080 video Decode and Encode
Audio Interface	I <sup>2</sup> S, SPDIF
LAN	AR8031 LAN PHY on board
USB	2x USB 2.0 port & 1x USB OTG Interface
Image Capture Interface	CSI Interface for MIPI camera
Serial	4x UART, 1x SPI Interface
Media Interface	2x High-speed MMC/SDIO (MMC 8-bit, SDIO 4-bit)
PCI-E	1x Mini PCI-E interface
GPIO	12x GPIO
I <sup>2</sup> C	RM-F600-SMC : 4x I <sup>2</sup> C RM-F6DU-SMC : 3x I <sup>2</sup> C
CAN Bus	2x CAN2.0B
Operating Temperature	RM-F600-SMC : -20°C to +60°C @ 1Ghz RM-F6DU-SMC : -0°C to +60°C @ 1Ghz
Software Support	Ubuntu Linux 11.10 (kernel 3.0)/ Android 4.3

### Ordering Information

RM-F600-SMC	RISC System on Module, 80mm x 50mm, SMARC small form factor with onboard Freescale i.MX6 Dual-lite 1GHz CPU, 1G DDR3, 4GB eMMC
RM-F6DU-SMC	RISC System on Module, 80mm x 50mm, SMARC small form factor with onboard Freescale i.MX6 Dual 1GHz CPU, 1G DDR3, 4GB eMMC
F6Sxx-HSK	heat-sink for testing.

### Features

- For SMARC form factor modules
- 12V DC-in, reset, power, RTC function
- Supports Gigabit LAN, audio, USB OTG, HDMI, COM (RS232/422/485)
- Micro SD socket, Mini PCI-E with USB, SIM socket on board
- 2x isolated CAN transceiver, TTL, LVDS, HDMI, CSI-MIPI camera

### Specifications

Form Factor	Standard Mini-ITX (170mm x 170mm)
Edge I/O	1x DC-in Jack (12V) 1x Gigabit 1x Mic+headphone 2x USB 2.0 host 1x USB OTG 1x HDMI 1x COM (RS232/422/485)
Internal Headers / Connectors	2x CAN bus 2.0B 1x 18/24bit single CH LVDS 1x 18/24bit TTL box header 1x LCD DDC (I <sup>2</sup> C) 1x LCD backlight connector 1x CSI-MIPI 2x USB 2.0 host 1x GPIOx8 pin header 2x RS232 box header 1x SIM socket 1x Speaker box header 1x Micro-SD socket
Jumpers, Switch & Buttons	Slots: 1x Full size Mini PCI-E with USB interface  1x Boot media select switch (SD/eMMC) 1x Reset button 1x Power button 1x GPI button 1x (RS232/422/485) selection jumper 1x Backlight power (5/12V) jumper

### Ordering Information

RP-100-SMC	RISC Carrier Board for SMARC SoM, 12V DC-in, Mini-ITX 170mmx170mm, 2x CAN, Mini PCIe with USB, Resistor touch header (4-wires), 2x USB header, 1x I <sup>2</sup> C header, 18/24 bit LVDS, TTL connector, Line in/ Line out, EEROM, CSI MIPI bus, 8x GPIO, 2x RS232, 1x RS232/422/485
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