

SMARC-EVK1

SMARC Development Kit



Features

- RM-F6DU1-SMC: i.MX6 Dual SMARC module
- RP-101-SMC: carrier board with rich I/O
- 7" (800 x 480) capacitive touch panel
- Supports 1080p Encode/ Decode
- Supports HDMI, I²C, SPI, GPIO/ Mini PCI-E/ USB/ Gigabit LAN/ Audio/ COM port
- WIFI/BT/3G/GPS modules (option)
- Android 4.3/ or Linux kernel 3.0 (Ubuntu11.10) preload in eMMC
- Cable kits inside

System

System Mainboard	RM-F6DU1-SMC + RP-101-SMC
CPU	NXP i.MX6 Dual-Lite 1GHz
Memory	DDR3 1GB on board
Display	7" (800 x 480) capacitive touch panel
Graphics	1080p hardware encode/decode OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
Storage	1x 4Gb eMMC on board 1x Micro-SD socket (up to 32GB)
Internal Header/ Connectors	1x 18/24-bit parallel LCD header 1x 18/24 bit dual CH LVDS box header 2x CAN bus 2.0B connectors 1x LCD DDC (I ² C) 1x LCD backlight connector 1x CSI-MIPI 2x USB 2.0 host 8x GPIO 3x COM port box header 1x Debug port header 1x Mini PCI-E with USB 1x SIM socket 1x Resistive touch header (4-wires) 1x Speaker box header Slot/ Socket: 1x Full-size Mini PCI-E with USB interface 1x SD socket (up to 32GB)
Edge I/O	1x Gb LAN 1x Headphone + MIC_In 2x USB 1x USB OTG 1x HDMI 1x COM (RS232/422/485) 1x DC-in jack
Jumpers, Switch & Buttons	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
Chassis Color	Black
Power Supply	100V-240V AC to 19V adaptor
Dimensions	450mm(W) x 350mm(D) x 170mm(H) 17.7"(W) x 13.7"(D) x 6.7"(H)

Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)

Ordering Information

SMARC-EVK1	SMARC(RM-F6DU1-SMC) & Carrier Board (RP-101-SMC), 7" PCT touch panel, AC adaptor, cable kits, recovery SD card, BSP DVD; (Preload Android/ Linux by order)
------------	--

