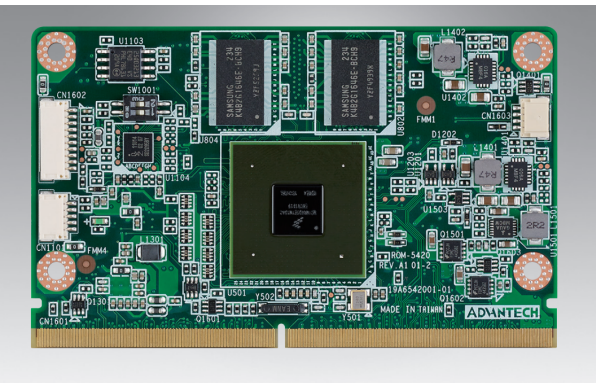


ROM-5420



Freescale ARM Cortex-A9 i.MX6 Dual 1 GHz high performance processor

f Onboard DDR3 1 or 2 GB

f Parallel RGB, HDMI, Single channel 18/24-bit LVDS, 1366 x 768

f Supports 4 GB eMMC Flash, 1 SD/MMC, 1 SATA

f 2 CAN, 4 UART, 5 I2C, 12 GPIO, 1 PCIe, 1 camera input and 1 Gigabit LAN

f Supports OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators

f Supports full HD hardware encode/decode engine

f Supports image protection

ROM-5420 series SMARC module has an integrated Freescale i.MX6 Cortex-A9 SoC. Freescale i.MX6 supports 2D/3D graphics accelerators, a full HD 1080p encode/decode hardware engine and two independent display outputs. ROM-5420 series support security protection and it protects user image from plagiarism. The camera input and power input +3V~5.25V support are specially designed for portable applications.

ROM-5420 adopts Freescale i.MX6 Dual Core Processor - ARM® Cortex™ A9 architecture as its SoC solution. The main features of this platform are followed by SMARC 1.0 standard, with a heatsink-less, compact, reliable & great power management.

Therefore, ROM-5420 platform is suitable for following applications:

HMI (Human Machine Interface)

Portable devices

Fleet management / Navigation

Industrial data collector

Specifications

SOM Type:

Microcontroller SODIMM Modules

Processor

Processor:
Freescale i.MX6
Clock Speed:
1 GHz
Real Time Clock:
Processor Misc.:
Freescale ARM Cortex™-A9 i.MX6 Dual/Quad 1.0 GHz high performance processor

Memory
Bootloader:
U-Boot
Primary Flash:
4GB eMMC Flash
Secondary Flash:
SD/MMC or SATA

Primary I/O
GPIO:
12x GPIO
SDIO:
1x SDIO
Disk Interface:
SD/MMC and SATA
Video Out:
LVDS
HDMI and TTL LCD

SPI:
4x SPI
Audio:
I2S
Ethernet:
Freescale i.MX6 integrated RGMII Gigabit Ethernet

USB:
1x USB 2.0
1x USB 2.0 OTG
Serial Ports:
4x COM (2x 2 wire
2x 4 wire w/ 3.3V)

I2C:
5x I2C
Watchdog:

Secondary I/O
CAN:
2x CAN bus 2.0B

Video Capture:
1x MIPI v1.0
4x Lane

LPT Port:
Keypad:
PS/2:

Expansion
Bus Misc.:

1x PCIe x1 Lane

Analog
A/D.

D/A:

Dimensions
Dimensions.

3.23 × 1.97 in

Form Factor:

314-pin SODIMM

Dimensions Misc.:

Dimensions (W x D) 82 x 50 mm

Power Requirements
Power Misc.:

Power Supply Voltage +3 ~ 5.25 V

Power Consumption Kernel idle: 1.25 W/ Maximum: 3.4W

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Environmental Misc.:

Operational Temperature: 0 ~ 60° C Optional Operational Temperature: -40 ~ 85° C Operating Humidity: 0% ~ 90% relative humidity, non-condensing

Pricing
ROM-5420CD-MD-R

ROM-5420CD-MDB1E, SMARC, i.MX6 2x1GHz, 1GBDDR3, 4GB eMMC, SATA, 4xCOM, 2xUSB2, GbE, 2xCAN (0~60C)

\$159.00

Order:

0

Parent Product:

ROM-5420

Base Product:

ROM-5420

ROM-5420WQ-ME-R

ROM-5420WQ-MEB1E, SMARC, i.MX6 4x800MHz, 2GBDDR3, 4GB eMMC, SATA, 4xCOM, 2xUSB2, GbE, 2xCAN (-40~85C)

\$207.00

Order:

0

Parent Product:

ROM-5420

Base Product:

ROM-5420

Non-Stock NCNR:

0