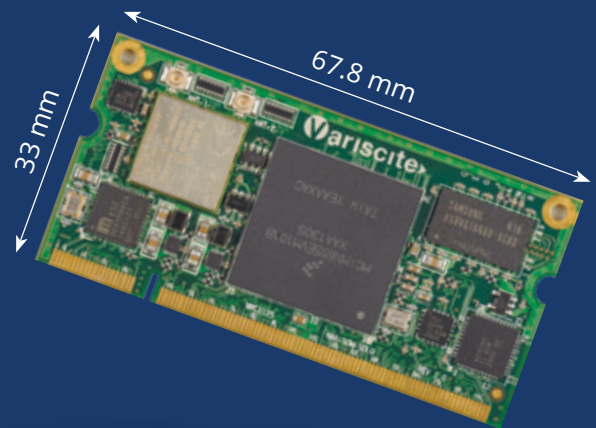


VAR-SOM-SOLO/DUAL

Staying on-trend with the market's shift towards a cost-effective highly integrated off-the-shelf solution, the VAR-SOM-SOLO/DUAL from Variscite levels the playing ground for a broad spectrum of embedded products.

Bringing all the benefits of the widely successful VAR-SOM-MX6, the VAR-SOM-SOLO/DUAL from Variscite carries much smaller dimensions and a slim lined price-point.

Features include NXP's i.MX6 1GHz single and dual Cortex-A9, SLC NAND, eMMC, dual band Wi-Fi/BT



with MIMO, USB, Gigabit Ethernet, A/V interfaces and industrial operating temperatures.

The VAR-SOLOCustomBoard completes an attractive full reference kit which can be used for customers evaluation, development and mass production.

Main Features

NXP i.MX6

- High performance 1.0 GHz Single and Dual Core Cortex-A9
- Up to 1GB DDR3, 1GB SLC NAND and 64GB eMMC
- Full HD 1080p video encoding/decoding capability
- Vivante GPU providing 2D/3D acceleration

Display Support

- 2 x LVDS, HDMI 1.4, MIPI-DSI
- LCD: WUXGA (1920 x 1200), HDMI: 1080p
- 4-wire resistive touch panel

Networking

- Gigabit Ethernet
- Certified WiFi 802.11 a/b/g/n with MIMO and Bluetooth 5.1/BLE

USB

- USB 2.0 OTG
- USB 2.0 Host

Audio

- Digital audio SSI(AUDMUX)/SPDIF
- Digital microphone (stereo)
- Headphone out, Line-in

Camera

- MIPI CSI serial input
- 2 x parallel input

Other Interfaces:

- Dual CAN, I2C, SPI, PWM, JTAG, Keypad
- PCIe, JTAG

-40 to 85°C industrial temperature support

OS Support

- Linux
- Android

Power

- Single 3.3V
- Digital I/O 3.3V
- RTC external backup battery

Dimensions (W x L x H):

- 33 mm x 67.8 mm x 4.5 mm



Complementing the VAR-SOM-SOLO/DUAL

VAR-SOM-SOLO/DUAL Evaluation Kit

The VAR-DVK-SOLO/DUAL allows full performance and capability evaluation, serving as a development and an evaluation platform for hardware and software teams.

Evaluation Kit content

- VAR-SOLOCustomBoard populated with VAR-SOM-SOLO/DUAL
- 7" LCD + capacitive touch panel
- Power supply and communication cables
- Documentation and design package



VAR-SOLOCustomBoard

VAR-SOLOCustomBoard - Supporting VAR-SOM-SOLO/DUAL

The VAR-SOLOCustomBoard ensures scalable and simplified development to achieve a short-time to market for current innovations. Moreover, it can be used as a carrier board for mass production of customers' end-products.



Display Support

- 4-pair 24-bit LVDS header
- 3-pair 18-bit LVDS header
- HDMI 1.4

Touch Panel

- 4-wire resistive touch panel (4-pin FFC/FPC)
- Capacitive touch support (6-pin FFC/FPC)

Audio/Video

- Serial camera (MIPI CSI)
- Parallel camera (header)
- Headphone
- Line-in
- Digital microphone

USB

- 1 x USB 2.0 host
- 1 x USB OTG

Ethernet

- Gigabit Ethernet

Storage

- SD/MMC card socket

Debug

- Micro USB
- JTAG (header)

RTC backup battery

- CR1225 coin battery socket

Additional expansion Connectors

- SPI, I2C
- CAN Bus
- UART, RS232
- Digital microphone
- PWM

Power

- 5V DC input

Size

- 8.7cm x 11.7cm

About Variscite

Variscite is a leading System on Modules (SoM) and Single-Board-Computer (SBC) design and manufacture company. A trusted provider of development and consulting services for a variety of embedded platforms, Variscite transforms clients' visions into successful products.

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