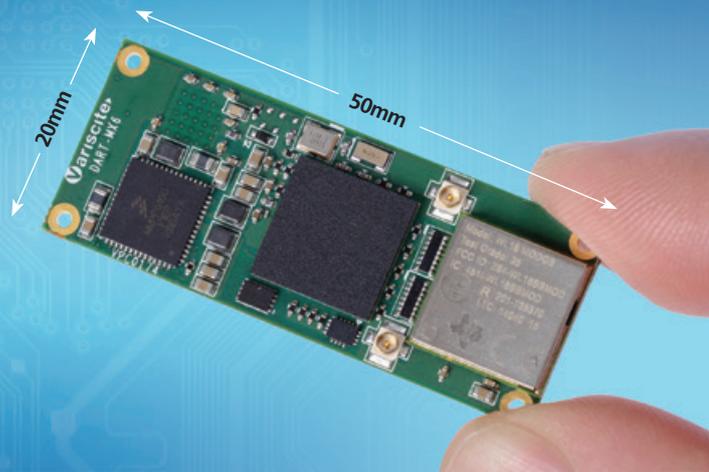


DART-MX6

The Smallest i.MX6 SoM in the Embedded Market



Main Features

Freescal i.MX6

- High performance 800 MHz Quad Core Cortex-A9™
- Up to 1GB LP-DDR2, 32GB 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

Networking

- Gigabit Ethernet
- Certified WiFi 802.11 a/b/g/n with MIMO
- Bluetooth: 4.0 + BLE
- PCIe

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
- Parallel input

Other Interfaces:

- Dual CAN, I2C, SPI, PWM, JTAG, UART, SD/MMC

-40 to 85 °C industrial temperature support

OS Support

- Linux: Yocto
- Android

Power

- Single 3.7V

Dimensions (W x L x H):

20mm x 50mm x 4mm

Overview

Measuring only 20mm x 50mm, the DART-MX6 is the smallest SoM supporting Freescal's i.MX6 quad and dual core Cortex-A9™ processor.

The DART-MX6 offers impressive performance and scalability alongside optimized power consumption and miniature size thus making it ideal for portable and battery operated embedded systems.

The DART-MX6 highly integrated connectivity includes dual band Wi-Fi/BT with MIMO, dual USB, Gigabit Ethernet, PCIe and A/V interfaces all supported in full -40 to 85 °C industrial operating temperatures.

The VAR-DT6CustomBoard carrier board of the DART-MX6 completes an attractive full reference kit which can be used for customers evaluation, development and mass production.





VAR-DVK-DT6 Evaluation Kit



Overview

The VAR-DVK-DT6 allows full performance and capability evaluation, serving as a development and evaluation platform for hardware and software teams.

- VAR-DT6CustomBoard populated with DART-MX6
- 7" LCD + capacitive touch panel
- Power supply and communication cables
- Documentation and design package

VAR-DT6CustomBoard



Overview

VAR-DT6CustomBoard - Supporting DART-MX6

The VAR-DT6CustomBoard not only ensures scalable and simplified development to achieve a short-time to market for current innovations, but also accommodates potential R&D directions and marketing opportunities.

Display Support

- Dual 18/24-bit LVDS headers
- DSI
- HDMI 1.4

Touch Panel

- 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

PCIe

Storage

- SD/MMC card socket

Debug

- Micro USB
- JTAG (header)

Additional expansion Connectors

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

RTC backup battery

- CR1225 coin battery socket

Power

- 5V DC input

Size

- 8.7cm x 11.7cm

About Variscite

In less than a decade Variscite has taken a leading position in the System on Modules (SoM) design and manufacture market. 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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