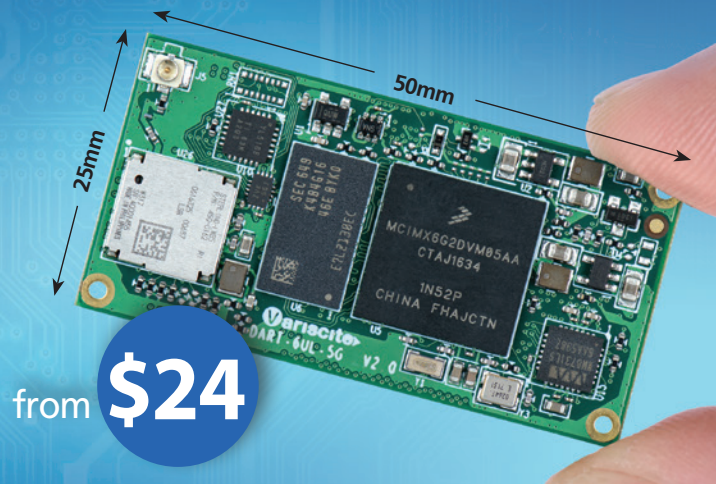


## DART-6UL

Optimizing Power,  
Size and Cost



### Main Features

#### Freescale i.MX 6UltraLite / 6ULL

- Power optimized 528MHz/696MHz ARM Cortex-A7™
- Up to 512MB DDR3L, 512MB NAND / 32GB eMMC
- Integrated security features
- 2D pixel acceleration engine (PxP)

#### Display Support

- 24bits Parallel LCD up to WXGA (1366 x 768)
- Touch screen controller

#### Networking

- 2 x 10/100Mbps Ethernet
- Certified 802.11 ac/b/g/n
- Bluetooth: 4.1 + BLE

#### USB

- USB 2.0 OTG
- USB 2.0 Host

#### Audio

- Digital audio SSI(AUDMUX)/SPDIF
- Analog microphone (stereo)
- Headphone out, line-in
- ESAI (6ULL only)

#### Camera

- Parallel input

#### Other Interfaces:

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

#### OS Support

- Linux: Yocto

#### Power

- Single 3.3V

#### Dimensions (W x L x H):

- 25mm x 50mm x 4mm

#### Industrial temperature support

#### Low Power consumption:

- Optimized power consumption in both operational and suspend modes



### Overview

The DART-6UL, measuring only 25mm x 50mm, is a highly flexible System-on-Module (SoM) based on Freescale's i.MX 6UltraLite / 6ULL family and carries up to 696MHz ARM Cortex-A7™ processor.

A versatile platform, the DART-6UL provides a variety of interfaces and connectivity options – all packaged at an optimized power, size and cost. This superior price/performance offering is ideal for fast emerging applications such as Internet-of-Things (IoT), as well as other portable and battery operated embedded systems.

The DART-6UL highly integrated connectivity includes a certified WiFi, Bluetooth/BLE, dual Ethernet, dual USB, audio, display with touch panel and serial interfaces. In addition, the system supports industrial operating grade, targeting embedded application requiring a wide temperature range.

The VAR-6ULCustomBoard carrier board complements an attractive full reference kit of the DART-6UL, which can be used for customers' evaluation, development and end-product mass production.

## VAR-DVK-6UL Evaluation Kit



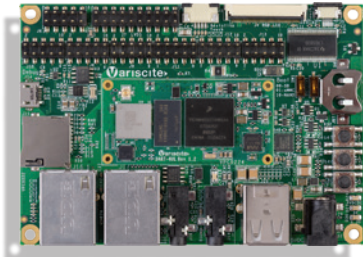
### Overview

The VAR-DVK-6UL allows full performance and capability evaluation, serving as a evaluation, development and production platform for hardware and software teams.

### Evaluation Kit content

- VAR-6ULCustomBoard populated with DART-6UL
- 7" LCD + capacitive touch panel
- Power supply and communication cables
- Documentation and design package

## VAR-6ULCustomBoard



### Overview

#### VAR-6ULCustomBoard - Supporting DART-6UL

The VAR-6ULCustomBoard ensures a scalable and simplified development and reference board to achieve a short time-to-market for customer's designs and end-products.

#### Display Support

- 24-bit RGB
- 18-bit LVDS

#### Touch Panel

- Capacitive touch support (6-pin FFC/FPC)
- Resistive touch support (via header)

#### Audio

- Headphone
- Line-in

#### USB

- 2 x USB 2.0 host
- Optional 1 x USB OTG

#### Ethernet

- 2 x 10/100Mbps Ethernet RJ45

#### Storage

- SD/MMC card socket

#### Additional expansion Connectors

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

#### Debug

- Micro USB
- JTAG (header)

#### RTC backup battery

- CR1225 coin battery socket

#### Power

- 5V DC input

#### Size

- 7cm x 10cm

## 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.

For more information contact:  
[sales@variscite.com](mailto:sales@variscite.com)

  
[www.variscite.com](http://www.variscite.com)