

DART-4460 System on Module



Power and mobility!

Great things really do come in small packages

Main Features

Texas Instruments OMAP4460

- TI's OMAP4460 with two ARM Cortex-A9 MPCores running up to 1.5GHz each
- PowerVR™ SGX540 graphics core
- Full HD 1080p and stereoscopic-3D 1080p video encoding/decoding capability

RAM: 512-1024 MB LPDDR2 800 MHz, 64-bit

Storage: 8 GB eMMC

Multiple Display Support

- HDMI: 1080p
- LCD: Parallel RGB, DSI 1400 x 1050 24 bpp

Camera: Dual CSI Camera interface

Networking

- Wi-Fi 802.11b/g/n
- Bluetooth 4.0 + EDR

USB

- USB 2.0 OTG
- USB 2.0 Host

Audio

- Line-in
- Headphones
- Digital microphone

Other Interfaces: UART, SPI, I2C, HDQ, McBSP, GPMC, Keypad, GPIOs

OS Support

- Linux
- Android

Power

- Single DC-In 3.3 to 4.5 V
- RTC external backup battery

-40 to 85 °C industrial temperature support

Dimensions (W x L x H):

52 mm x 17 mm x 3.7 mm

Overview

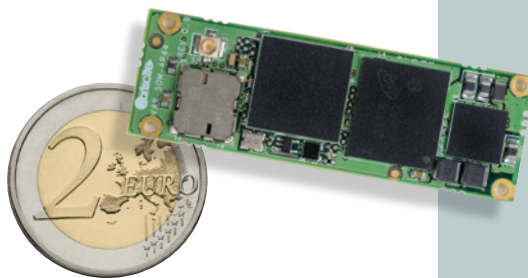
Measuring only 52 mm x 17 mm, the world's tiniest Cortex-A9 System on Module, DART-4460 incorporates TI's smart multicore OMAP4460 powerful processing.

The Dart-4460 creates a new world of opportunity for application-specific customization from the lightest tablet to the most compact multimedia system.

Variscite customers can now integrate the highest processing power available into their mobile or mechanically constrained devices.

This miniature-form System on Module not only meets the needs of industrial temperature grade (-40 to 85 °C) applications, but also carries cutting-edge multimedia performance with advanced graphics and video capabilities.

In addition, the DART-4460 consumes only 5 mA in suspend and 44 mA with a 3.7 V Li-Po battery while running at 400 MHz, which makes it ideal for mobile battery operated devices.



Complementing the DART-4460



DART-4460 Evaluation Kit

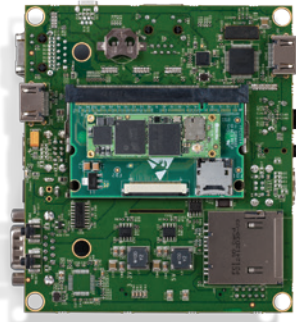


Overview

The VAR-DVK-DT44 allows full performance and capability evaluation, serving as a platform for hardware and software teams

- VAR-DT44CustomBoard populated with DART-4460
- 7" WVGA with touch panel
- Documentation and design package

VAR-DT44CustomBoard



Overview

The VAR-DT44CustomBoard is a small form-factor and highly flexible carrier board for the DART-4460.

The offering incorporates the latest trends in functionality and interfaces for embedded products.

Display Support

- HDMI
- 18-bit RGB parallel
- 4 pair 24-bit LVDS

Touch Panel

- 4-wire resistive
- Capacitive touch support (I2C-based)

Audio

- Headphone out
- Line-in

USB

- 4 x USB 2.0 Host
- 1 x USB 2.0 OTG

Ethernet

- Gigabit Ethernet

Storage

- SD/MMC SD card socket

RS232

- Debug port
- DTE port

Expansion Connectors

- GPMC - Local Bus interface
- SD/MMC interface
- RAW image-sensor module interface
- UART, SPI, I2C, HDQ, McBSP/I2S, GPIOs

Power:

7.5V - 14V DC input

Dimensions (L x W x H):

12.0 cm x 10.5 cm x 2.4 cm

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.

For more information contact:
sales@variscite.com


www.variscite.com