# Cypress FM4 Graphics Controller MCU Starter Kit



The Cypress S6E2DH series graphics controller MCU starter kit provides an easy to use, cost-effective solution to evaluate an ARM® Cortex®. M4 based microcontroller that incorporates a dedicated hardware graphics engine allowing rich display images. The board comes complete with WQVGA TFT display with a touch sensor and on-board CMSIS-DAP enabling the user to connect directly to a PC and begin development. In addition to the evaluation board, the Cypress solution includes a free-of-charge graphics authoring tool and low-level libraries for the graphics engine.

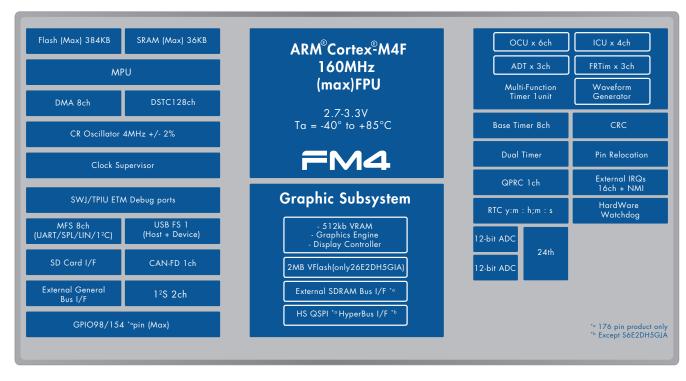
Cypress's S6E2DH MCU is ideal for embedded applications with TFT displays such as home appliances, multi-function printers, industrial equipment, electronic musical instruments and security systems.

### **Features**

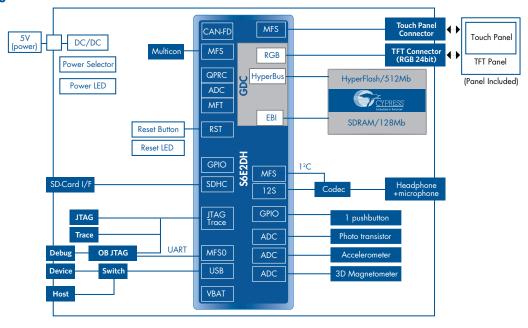
- Cypress FM4 S6E2DH MCU
- CMSIS-DAP JTAG adapter
- USB-Device (Type-B connector)
- WQVGA TFT Panel with touch
- 512MB Spansion HyperFlash™ memory for image storage
- 128MB SDRAM for external VRAM
- I<sup>2</sup>S connection to codec
- SD card interface

Part number: FM4-176L-S6E2DH

# MCU block diagram / features



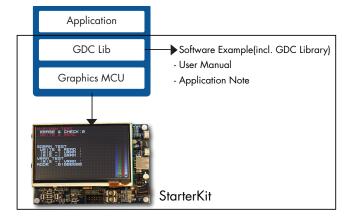
# Starter kit block diagram



# Development environment / evaluation board

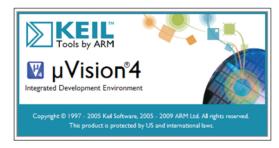
Graphics Software Development environment

### GDC Software Architecture





## Development Tools ARM (KEIL) / IAR SYSTEMS





Note: This document may be revised by subsequent versions or modifications due to changes in technical specifications.

# **Cypress Semiconductor Corporation**

198 Champion Court, San Jose CA 95134 phone +1 408.943.2600 fax +1 408.943.6848 toll free +1 800.858.1810 (U.S. only) Press "1" to reach your local sales representative

