OM13083

Product Brief

LPC4088 Display Module

Rev. 1.0 — 10th April 2015

Embedded Artists' LPC4088 Display Module lets you get up-and-running quickly with graphical applications, the mbed-platform and Cortex-M4F programming in general. Communication interfaces, large on-board memories and LCD controller/display enables graphical user interface (GUI) and communication gateway designs. On-board connectors and industrial design makes the module perfect for product integration.

Feature summary

The LPC4088 Display Module includes the following features:

Display

- 4.3" color TFT capacitive touch LCD, 480 x 272 pixel

Processor

- 120 MHz Cortex-M4F LPC4088 MCU from NXP

On-module memories

- 512 kB LPC4088 on-chip flash

Connectors/Interface

- 100/10 Mbps Ethernet with RJ45 connector
- USB Host interface with USB-A connector
- USB Device interface with mini-B connector
- XBee™ compatible connector for RF module add-on
- mbed HDK debug interface connector (USB micro-B)
- uSD/transflash memory card interface connector
- mbed-enabled via on-board HDK (CMSIS-DAP interface, USB drag-n-drop, Virtual COM port)

Connectors/Interface

- SWD/JTAG connector (ARM standard Cortex Debug Connector)
- SWD Tag-Connect™ connector

Power

- External 5 V DC supply
- Micro-B USB HDK connector

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LPCOpen drivers and examples

LPCOpen software packages allow users to quickly and easily utilize NXP's extensive array of microcontroller software libraries to create and develop multifunctional products. Drivers for the LPC4088 Display Module can be downloaded for free at http://www.lpcware.com/lpcopen.

Board specifications

Recommended operating conditions: 0 to 70°C ambient
Weight: 5.6 ounces
Size: 123 x 59mm (4.8 x 3.8 inches)
The LPC4088 Display Module is RoHS compliant.

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