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Quickstart Board for LPC4088

OM13063,598: Quickstart Board for LPC4088   ✉ ⌹

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Overview

Embedded Artists' LPC4088 QuickStart Board is an easy to use ARM Cortex-M4 rapid prototyping board in a standard through hole DIP package (44-pin), targeted at high-performance as well as low-power applications. Communication interfaces, large on-board memories and LCD controller enables graphical user inteface applications. The LPC4088 QuickStart Board is mbed Enabled, to take full advantage of the mbed platform.

Features

- NXP®'s Cortex-M4 LPC4088 microcontroller in a BGA package, running at up to 120 MHz

- 8 MB Quad SPI and 512 kB on-chip program flash

- 32 MB SDRAM (x32 bit databus for high handwidth access), 96 kB on-chip SRAM and 4 kB on-chip E²PROM data memory

- 12 MHz main and 32.768 kHz RTC crystals

- 10/100 Mbps Ethernet (RJ45)

- USB Host (A type) and Device (micro-B) interfaces

- mbed HDG debug interface

- 20 pin SWD/Trace connector (ARM standard debug connector)

- 61 pin 0.3 mm pitch FPC connector for display expansion

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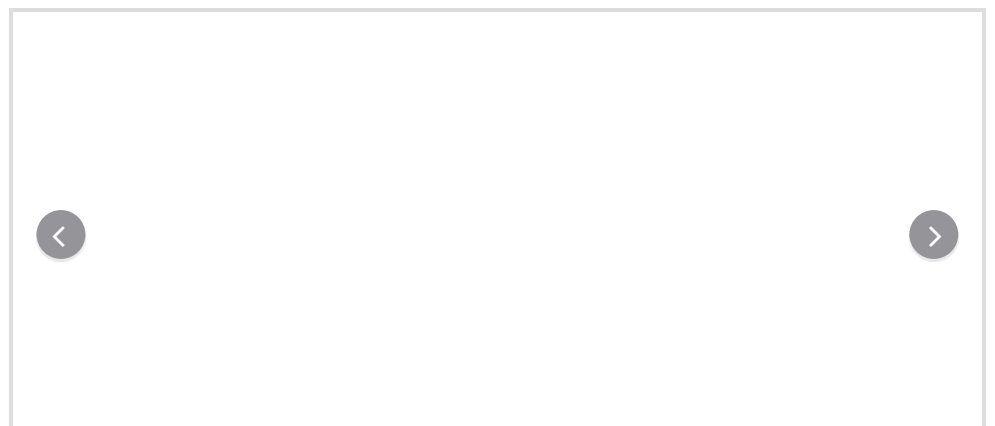
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Kit Contains

- 1 x LPC4088 QuickStart Board

- 1 x USB cable

Supported Devices

⊞ Microcontrollers and Processors

  ⊞ ARM Processors

    ⊞ LPC4000 Series: Mid-range Microcontrollers (MCUs) based on ARM® Cortex®-M4 Cores

- **LPC4088FBD144**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4088FBD208**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4088FET180**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4088FET208**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4072FBD80**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4072FET80**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4074FBD144**: LPC4074FBD144
- **LPC4074FBD80**: LPC4074FBD80
- **LPC4076FBD144**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4076FET180**: Mid-range 32-bit Microcontroller (MCU) based on ARM Cortex-M4 Core
- **LPC4078FBD100**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4078FBD144**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4078FBD208**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4078FBD80**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4078FET180**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI
- **LPC4078FET208**: 32-bit ARM Cortex-M4 MCU; up to 512 kB flash, 96 kB SRAM; USB Device/Host/OTG; Ethernet; EMC; SPIFI

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