

OM13038,598: RDB4078 Development Board for the LPC4078 ARCHIVED

Overview

Downloads

Buy/Parametrics

Training & Support

Jump To

Overview

Features

Supported Devices

Kit Contains

Overview

The RDB4078 is a versatile platform for evaluating and developing with NXP®'s LPC40xx series microcontrollers. The board is fitted with an NLPC4078 microcontroller, featuring:

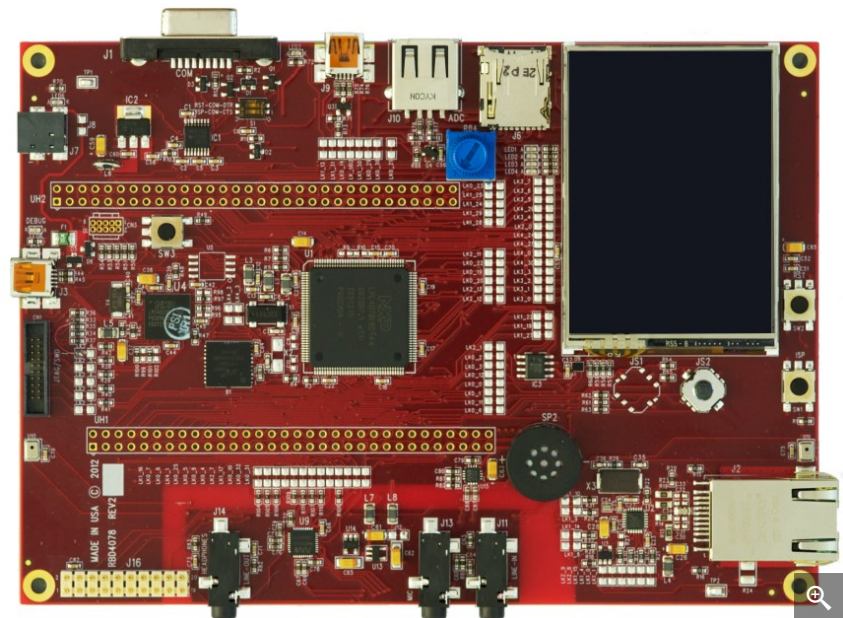
- 120 MHz ARM® Cortex-M4 with floating point in hardware and DSP extensions
- 512 KB Flash, 96 KB SRAM, and 4032 bytes of EEPROM

On-board debug connection suitable for use with LPCXpresso IDE or other third party tool chains without need for an additional debug probe.

A 20-pin 0.05" JTAG/SWD/ETM connector for use with external debug probe is also provided.

This demoboard is obsolete and no longer available. Consider using EA LPC4088 display module([OM13083](#)), LPC4088 QuickStart Board([OM13063](#)) and EA LPC4088 Development kit([OM13029](#)) instead.

RDB4078 Development Board for the LPC4078



Features

- 2.4" 320 x 240 IPS (In Plane Switching) color LCD providing amazingly wide viewing angle
- Resistive touchscreen
- Wolfson high quality stereo audio codec WM8903, amplifier, on-board speaker and 3.5 mm headphone socket
- Dual on-board digital microphones (WM7220) enabling spatial audio positioning

Supported Devices

- [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

applications

- Standard 3.5 mm audio jacks for line level and microphone input
- 10/100 Mbps Ethernet port using SMSC LAN8720 PHY
- High speed USB device and host connectors
- Micro-SD Card interface
- Serial port on standard 9-pin D-type with RS232 levels
- Mini-joystick, potentiometer, plus INT and RESET buttons, for user input
- 4 User LEDs
- Cymbet EnerChip Battery Backup

Kit Contains

- RDB4078 Development Board
- USB cable

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