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OM13038,598: RDB4078 Development Board for the LPC4078 ARCHIVED

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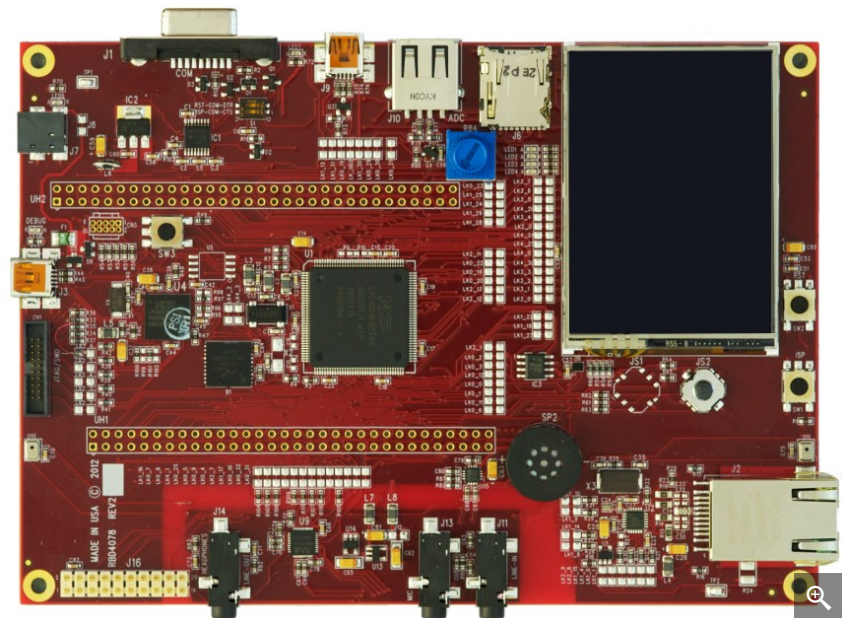
- 120 MHz ARM® Cortex-M4 with floating point in hardware and DSP extensions
- 512 KB Flash, 96 KB SRAM, and 4032 bytes of EEPROM

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This demoboard is obsolete and no longer available.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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