



OM13061

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LPC1837 Dual-USB Host/Device Solution

Overview

Documentation

Ordering

Products

Design support

Show all

Feedback

Demo board description

The NXP LPC1837 Dual-USB Host/Device Solution makes it easy to demonstrate the advanced USB capabilities of the high-performance Cortex-M3 LPC1837 microcontroller. The kit, supplied with all the hardware and software needed to demonstrate real-world operation, supports two demos and is compatible with the KEIL μ 4Vision IDE and the LPCXpresso v6 IDE. The two demonstrates show HS USB Host operation for quick file transfers and simultaneous dual-USB operation for MP3 playback.



LPC1837 Dual-USB Host/Device Solution

Features

- 180 MHz Cortex-M3 LPC1837
 - 1 MB dual-bank Flash
 - 2x HS USB with on-chip PHY
 - Ethernet MAC
 - SD/MMC interface
 - BGA100/180/256, LQFP208/144
 - Pin-compatible with dual-core LPC4300
- Peripheral interfaces
 - Ethernet PHY
 - Audio codec plus audio in/out
 - SD card slot
 - RJ45 connector
- Flexible power supply
 - PC power supply via USB (500 mA)
 - Regulated supply via 5 V pin on header
- Source code
 - Dual-USB application for MP3 audio playback
 - HS USB application for fast file transfers
- IDE compatibility
 - Keil μ Vision
 - NXP LPCXpresso v6

Descriptive summary

Demo Box contents include:

- 1x LPC1837 Xplorer board
- 1x 4GB MicroSD card *contents*
- 1x 4GB USB flash drive
- 1x Earbud set
- 2x Micro - TypeA USB cables
- 1x Micro - Female TypeA USB cable

- 1x LPCLink2 JTAG debugger
- Source code
- Sample MP3 files
- Pre-built demo image
- Quickstart guide [view](#)

Support Links:

- [LPC1837 Dual-USB Overview](#)
- [LPC1837 Dual-USB contents of microSD card](#)
- [LPC1837 Dual-USB Quickstart guide](#)
- [LPC1800 Product Page on NXP](#)

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Documentation for this product

File name	Title	Type	Format	Date
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Demo boards

Type number	Ordering code(12NC)	Orderable part number	Products status	Region	Distributor	In stock	Order quantity	Inventory date	Buy online
OM13061	9353 033 56598	OM13061UL	Volume production						

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Type number	Description	Status	Quick access
LPC1810FBD144	0kB flash, 136kB SRAM, no USB, LQFP144 package	Qualification	Download datasheet Order sample
LPC1810FET100	0kB flash, 136kB SRAM, no USB, TFBGA100 package	Production	Download datasheet Order sample
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