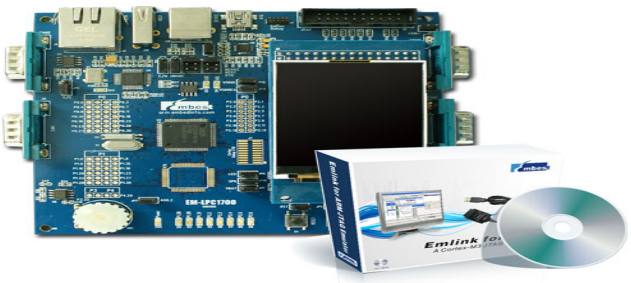
Embest - LPC1768-SK - LPC1768-SK Low Cost Development Kit

Product Overview:

This is the low cost development kit for NXP LPC1768 (100MHz, the very fast Cortex-M3 processor), including the LPC1768 evaluation board and Emlink for ARMJTAG adapter, so the developers can easy start to learn and test all the relevant applications on it, or evaluate your new project design through this entire system.



Kit Contents:

Take the LPC1768-SK out of its box. Included in the box are:

- NXP LPC1768 ARM-M3 Board

  - ✓ One LPC1768 ARM-CM3 Board
  - ✓ One RS-232 Serial Cable
  - ✓ One USB Cable
  - ✓ One RJ45 Ethernet Cable
  - ✓ One 2.4" TFT LCD Panel (240 x 320)

- Emlink for ARM

  - ✓ One Emlink for ARM
  - ✓ One JTAG20-14-8 Convert Module
  - ✓ One IDC14 Cable
  - ✓ One 8pins Cable

Key Features:

NXP LPC1768 ARM Cortex-M3 Board:

- ✓ Include one 2.4" TFT LCD (240*320)
- ✓ NXP LPC1768 processor, based on ARM Cortex-M3 Core, 100MHz

- ✓ 512KB internal flash and 64KB SRAM
- ✓ XTAL Frequency: 12 MHz
- ✓ Two RS232 Interfaces
- ✓ Two CAN Interfaces
- ✓ One 10/100M Ethernet Interface
- ✓ One ETM Interface
- ✓ One Micro SD Card Interface
- ✓ One USB Device Interface
- ✓ One USB Host Interface
- ✓ One USB OTG Interface
- ✓ One 20pins JTAG Interface
- ✓ One 10pins Cortex Debug Interface
- ✓ One 18pins Cortex Debug Interface
- ✓ One TFT LCD Interface
- ✓ One Joystick with 4-direction control and selector
- ✓ One Analog Output (connected to speaker by default)
- ✓ One Analog Input (connected to potentiometer by default)
- ✓ Supply Voltage: 5V DC (provided by the USB bus of a PC)
- ✓ Supply Current: 65mA typical, 120mA maximum
- ✓ Board Size: 119mm x 119mm (4.68" x 4.68")

Emlink for ARM:

- ✓ Supports debugging with Realview MDK and EWARM
- ✓ Supports ARM Cortex-M3 processors: STM32, LPC17XX, AT91SAM3UE, etc.
- ✓ JTAG 20 pins connects to target
- ✓ Supports hardware and software breakpoints
- ✓ Supports USB port connecting to host PC
- ✓ Downloads and debugs speed up to 250KBytes/s (about 1.5Mbps)
- ✓ Integrates seamlessly into IAR Embedded Workbench and Keil RealView MDK

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
LPC1768-SK	Embest	NA	63R5729

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LPC1768FBD100	NXP	32Bit ARM Cortex	1718549	15R1840
SW_LICA	Embest	Emlink for ARM License	NA	63R5737
SPC19944	SPC Technology	Shielded Serial Cable Assembly	1702771	83K3689
SPC15457	SPC Technology	Standard 9 Pin D-Subminiature Connector	1653954	79K5032
SPC21961	SPC Technology	Category 5e Cable Assembly	1363809	21M5875
555052-1	TYCO Electronics	RJ45 JACK	1557068	66F3284
897-43-004-90-000000	Mill Max	USB Connector	1621546	84K7068

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
OM11043	NXP	MBED Rapid Prototyping with LPC1768 MCU	LPC1768	1761179	33R0887
EM-LPC1700-68	Embest	LPC1768 Evaluation Board	LPC1768	NA	63R5719

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
LPC1768	32Bit ARM Cortex	1.67MB

Application Notes:

File Name	Size
Using the FreeRTOS Real Time Kernel	650KB
Cortex-M3 based microcontrollers with Ethernet, USB, CAN and 12-bit ADC	118KB