



Embest - LPC1766-SK - LPC1766-SK Low Cost Development Kit

Product Overview:

This is the low cost development kit for NXP LPC1766 (100MHz, the very fast Cortex-M3 processor), including the LPC1766 evaluation board and Emlink for ARM/JTAG 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 LPC1766-SK out of its box. Included in the box are:

- NXP LPC1766 ARM-M3 Board
 - ✓ One LPC1766 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 LPC1766 ARM Cortex-M3 Board:

- ✓ Include one 2.4" TFT LCD (240*320)
- ✓ NXP LPC1766 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
LPC1766-SK	Embest	NA	63R5728

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LPC1766FBD100	Nxp	32Bit ARM Cortex	1718548	15R1839

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
897-43-004-90-00000	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-LPC1700-66	Embest	LPC1766 Evaluation Board	LPC1766	NA	63R5718

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
LPC1766	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

