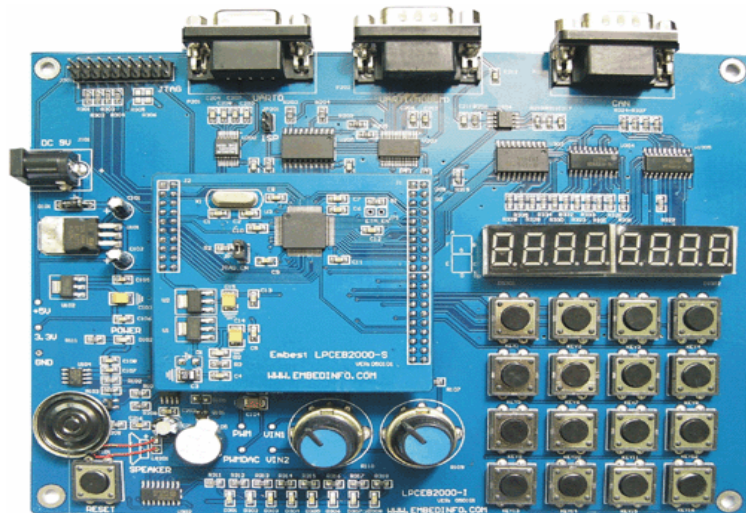# Embest - LPCEB2000-S LPC2000 Evaluation Kit

Product Overview:

The 16/32-bit LPC2000 family is based on a 1.8V ARM7TDMI-S core operating at up to 60 MHz together with a wide range of peripherals including multiple serial interfaces, 10-bit ADC and external bus options. These controllers are designed for use in a range of applications including industrial control, automotive, medical, connectivity and any other general purpose embedded application requiring high performance and low power consumption in a cost-effective package.

The Embest LPCEB2000 Evaluation Board is comprised a CPU module board and an expansion board. The expansion board named LPCEB2000-I. The CPU module board mount directly on top of the LPC2000-I expansion board via high quality goldplated pins and sockets. All the 3 types of CPU module board (LPCEB2000-S) can be installed on LPC2000-I. By this mode, customers can phototype LPC2114/19, 2124/29, 2194, 2131/32/38, 2210/12/14, 2290/92/94 on a same expansion board with different CPU module board. You should select the type of CPU module board which you would like to install when you place an order.

Kit Contents:

Take the LPCEB2000-S out of its box. Included in the box are:

- LPCEB2000-I board
- LPCEB2000-S board
- Serial cable
- Parallel cable
- 9.0V DC Power supply

Key Features:

- Dimensions: 182 x 139 mm, Temperature: -45 to +85 Celsius

- Power input: +9V
- 2 serial ports
- 1 CAN port
- 1 reset button, 4x4 keyboard
- 8 indicator lights
- 2-channel AD sampling input
- 2-channel PWM output, one is output to a buzzer, the other is to PWMDAC
- I2C bus
- 8-digit 8-segment LED display
- Analog signal output to a speaker
- 20 PIN standard JTAG port
- Sockets for CPU module board expansion: one 10x2, one 20x2

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
LPCEB2000-S	Embest	NA	64R5923

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
SPC19944	SPC Technology	Shielded Serial Cable Assembly	1702771	83K3689
PC15457	SPC Technology	Standard 9 Pin D-Subminiature Connector	1653954	79K5032
SPC21961	SPC Technology	Category 5e Cable Assembly	1363809	21M5875
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
LPCEB2001-A	Embest	LPCEB2000 Evaluation Board with -A	LPC2131/2132/2138	NA	64R5925
LPCEB2002-B	Embest	LPCEB2000 Evaluation Board with -B	LPC2292/2210/2212/ 2214/2290/2294	NA	64R5927

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
LPC2129/2114/2119	LPC2000 32bit Microprocessor	3.3MB

Application Notes:

File Name	Size
AN10302 Using the Philips LPC2000 Flash utility with the Keil MCB2100 and IAR LPC210x Kickstart	529KB
AN10438 Philips LPC2000 CAN driver	1.11MB
AN10835 LPC2000 secondary bootloader for code update using IAP	500KB
AN10689 Full-duplex software UART for LPC2000	1.02MB
AN10403 Connecting ethernet interface with LPC2000	241KB
AN10302 Using the Philips LPC2000 Flash utility with the Keil MCB2100 and IAR LPC210x Kickstart	529KB