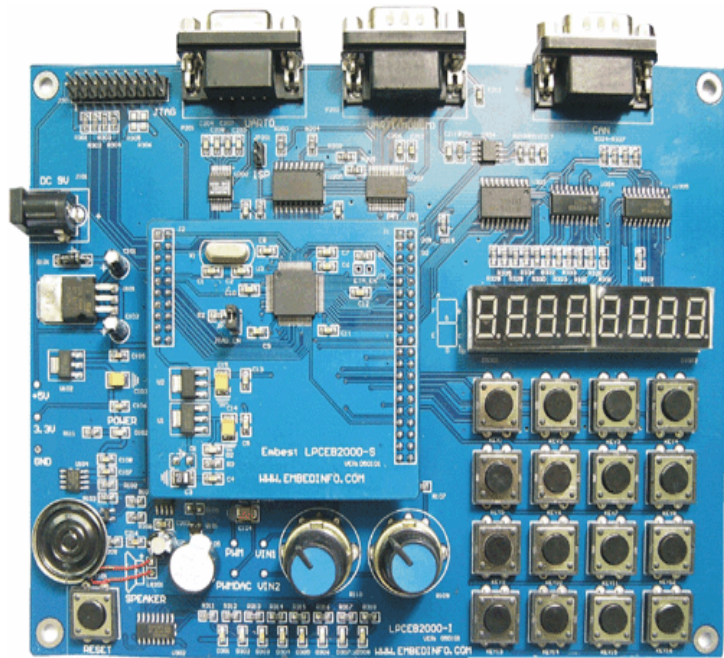


## Embest - LPCEB2001-A - LPC2000 Evaluation Kit

### 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-A) 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-A out of its box. Included in the box are:

- LPCEB2000-I board
- LPCEB2000-A 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
LPCEB2001-A	Embest	NA	64R5925

### Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
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
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
LPCEB2000-S	Embbest	LPCEB2000 Evaluation Board with -B	LPC2129/2114/2119 / 2124/2194	NA	64R5923
LPCEB2002-B	Embbest	LPCEB2000 Evaluation Board with -B	LPC2292/2210/2212/ 2214/2290/2294	NA	64R5927
MINI9261-I	Embbest	Processor Card Based ARM	AT91SAM9261S	NA	64R5937

## Document List:

## Datasheets:

Part Number	Description	Size
MAX3232	<a href="#">RS-232 Transceivers</a>	752KB
LM1117DT-ADJ	<a href="#">800mA Low-Dropout Linear Regulator</a>	647KB
LPC2131/2132/2138	<a href="#">LPC2000 32bit Microprocessor</a>	3.3MB

## Application Notes:

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