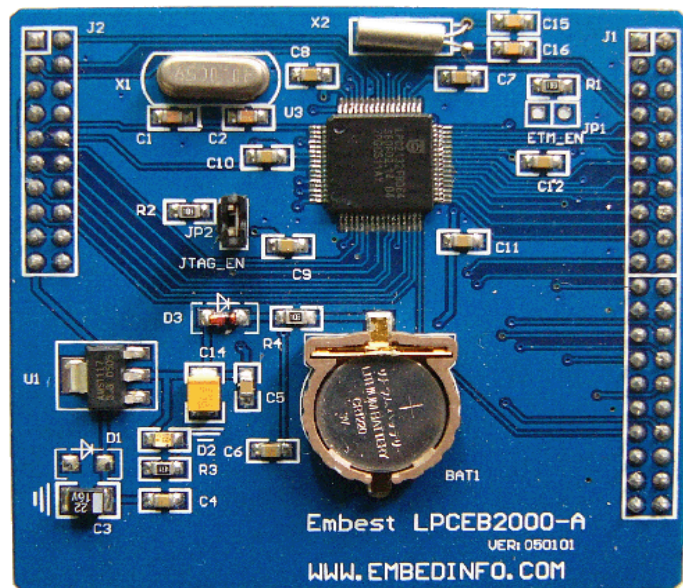


Embest - LPCEB2001-AP - LPCEB2000-A Hardware Daughter Card

Product Overview:

LPCEB2000-A is a core processing board design extends the basic feature of Philips LPC2131/2132/2138 which is based on a 16/32-bit ARM7TDMI-S microcontroller up to operate at 60MHz. With more advanced embedded peripherals and its extensible pin-headers on the edge, you have tremendous flexibility to extend the system to drive the most demanding applications. User can mount this processor board directly on top of your designed expansion board to form a complete hardware system; it will speed up your development process and reduce the product cost.



The LPCEB2000-A can plug into LPCEB2000-I Development Board via J1 and J2 connector header when developing. LPCEB2000-I Development Board expand the two UART to RS-232 drivers, 4x4 keyboard, 2-channel PWM output(one is output to a buzzer, the other is to PWMDAC), 2-channel AD sampling input, I2C bus, 8-digit 8-segment LED display, Analog signal output to a speaker, 20 PIN standard JTAG port and 1 reset button. Plenty of software examples (all in source codes) also provided with the LPCEB2000-I Development Board. With the LPCEB2000-I Development Board, you can develop the LPCEB2000-A quickly.

Key Features:

- Dimensions: 65 x 61 mm
- Temperature: -45 to +85 Celsius
- LPC2132 CPU, 16/32-bit, 60 MHz, 16kB of on-chip static RAM and 64kB of on-chip Flash program memory. Can be replaced with LPC2131/2138 CPU.
- A 10MHz Crystal for CPU and a 32kHz Crystal for on-chip RTC
- On-chip battery
- Powered with a regulated 5V DC using the on-board 3.3V regulators.
- Power status indicator LED (D2)
- A Jtag enable/disable jumper

- J1 and J2 Connector, both use 0.1 spacing, 0.025 square inch straight pin headers. J1 is 20x2 Pins, J2 is 10x2 Pins.

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
LPCEB2001-AP	Embest	NA	64R5926

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-SP	Embest	LPCEB2000-S Processor Card	LPC2129/2114/2119/ 2124/2194	NA	64R5924
LPCEB2002-BP	Embest	LPCEB2000-B Processor Card	LPC2292/2210/2212/2214/2290/2294	NA	64R5928
MINI9261-I	Embest	Processor Card Based ARM	AT91SAM9261S	NA	64R5937

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
LPC2131/2132/2138	LPC2000 32bit Microprocessor	698KB

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