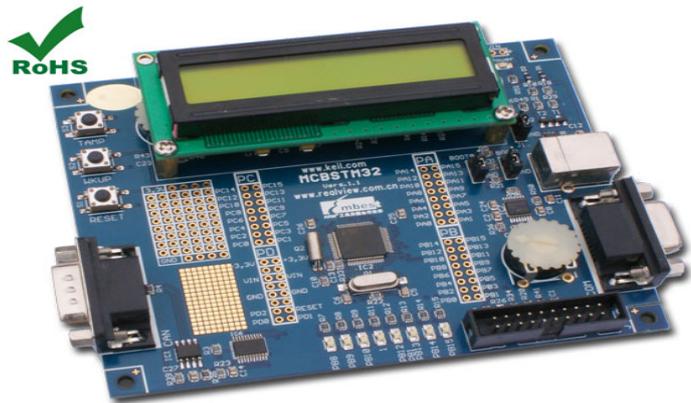


## Embest - MCBSTM32 - STMF103R100 Evaluation Board

### Product Overview:

STM32F103R100 produced by the cooperation of Embest Inc and KEIL Inc from Germany is a high performance, low power consumption ARM evaluation board for STMicroelectronics ARM Cortex-M3 core-based processors, operating at a 72 MHz frequency with Flash memory up to 128 Kbytes and SRAM up to 20 Kbytes. It provides an extensive range of peripherals, such as USB, Motor Control, CAN, SD card, Smart card, UART etc. which makes it be able to apply to comprehensive area, like Motor drive and application control, Medical and handheld equipment, etc.



### Kit Contents:

Take the MCBSTM32 out of its box. Included in the box are:

- STM32F103R100 ARM-CM3 Board
- RS-232 Serial Cable/DB9 F-M
- USB Cable / A-B

### Key Features:

- STM32F103RB ARM Cortex-M3 microcontroller, 72 MHz
- 128KB flash memory, 20KB SRAM
- via a standard USB connector or VIN connection near LED power
- 16 x 2 characters LCD
- USB host interface & connector
- CAN interface & connector
- RS232 interface & connector
- JTAG interface & connector
- SD card memory interface
- 8 Port LEDs
- 1 Analog inputs(via potentiometer)
- 3 push-button keys(TAMP, RESET, WAKE-UP)

## Ordering Information:

### Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
MCBSTM32	Embest	NA	64R5936

### Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
STM32F103C8T6	ST	32Bit ARM Cortex	1447637	59M2182
EMLINK-AH	Embest	Emlink for ARM	NA	63R5721
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
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
STM3210E-SK/HIT	ST	Hitex starter kits for ST ARM core-based MCUs	ST ARM core-based MCUs	1787265	25R9447
STM3210E-SK/IAR	ST	IAR starter kits for ST ARM core-based MCUs	ST ARM core-based MCUs	1706352	57P1280
STM3210E-SK/KEIL	ST	Keil starter kits for ST ARM core-based MCUs	ST ARM core-based MCUs	1787301	57P1281
STM32F103ZE-SK	Embest	Starter kits for ST ARM core-based MCUs	STM32F103ZE	NA	63R5736

## 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
STM32F103C8T6	<a href="#">32-Bit Cortex ARM</a>	1.1MB

### Application Notes:

File Name	Size
<a href="#">How to migrate from the STM32F10xxx firmware library V2.0.3 to the STM32F10xxx standard peripheral library V3.0.0</a>	1.5MB
<a href="#">Clock/calendar implementation on the STM32F10xxx microcontroller RTC</a>	433KB
<a href="#">TFT LCD interfacing with the high-density STM32F10xxx FSMC</a>	804KB
<a href="#">Improving STM32F101xx and STM32F103xx ADC resolution by oversampling</a>	200KB
<a href="#">STM32F10x in-application programming using the USART</a>	257KB