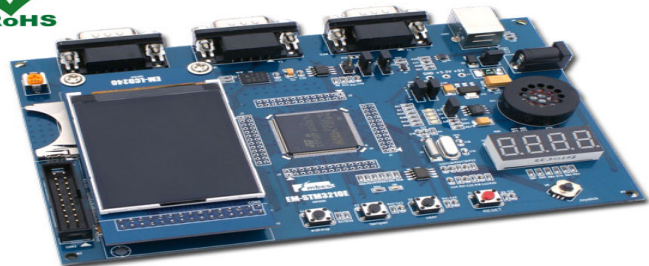




## Embest - EM-STM3210E - EM-STM32F103ZE Low Cost Development Kit

### Product Overview:

This is the low cost development kit for STM32F103ZE (72MHz, the very popular ARM Cortex-M3 processor), including the STM32F103ZE evaluation board (STM3210E Board)(SZE1) and Emlink for ARM(EAH1) 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 EM-STM32F103ZE out of its box. Included in the box are:

- One STM3210E ARM-CM3 Board
- One RS-232 Serial Cable
- One USB Cable
- One 2.4" TFT LCD Panel (240x320)

### Key Features:

- Includes one 2.4" TFT LCD
- STM32F103ZE, ARM Cortex-M3 based, 72MHz
- 512KB Flash memory and 64KB SRAM
- XTAL Frequency: 8 MHz
- Two RS232 Interface
- One CAN interface
- One USB Device Interface
- One TFT LCD interface
- One MicroSD Card interface
- One 20pins JTAG Interface
- Four Push Buttons (Reset, Wake Up, Tampering, User)
- One Joystick with 4-direction control and selector

- One RTC Unit with backup Battery
- One Temperature Sensor
- One Analog Input (connected to potentiometer),
- One Analog Output (connected to speaker by default)
- Supply Voltage: 5 Volts DC (provided by USB Cable)

## Ordering Information:

### Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EM-STM3210E	Embest	NA	63R5720

### 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		63R5721
SW_LICA	Embest	Emlink for ARM License	1788113	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
897-43-004-90-000000	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
STM3210E-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