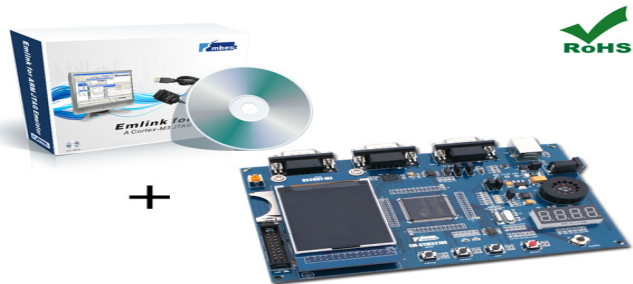




Embest - STM3210E-SK – Low Cost development Kit

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 STM32F103ZE -SK out of its box. Included in the box are:

- STM3210E ARM Cortex-M3 Board
 - ✓ One STM3210E ARM-CM3 Board
 - ✓ One RS-232 Serial Cable
 - ✓ One USB Cable
 - ✓ One 2.4" TFT LCD Panel (240x320)
- Emlink for ARM
 - ✓ One Emlink for ARM
 - ✓ One JTAG20-14-8 Convert Module
 - ✓ One IDC14 Cable
 - ✓ One 8pins Cable

Key Features:

ST STM3210E ARM Cortex-M3 Board:

- ✓ 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)

Board Size: 110mm x 140mm (4.33" x 5.5") Emlink for ARM:

- ✓ Supports debugging with Realview MDK and EWARM
- ✓ Supports ARM Cortex-M3 processors: STM32, LPC17XX, AT91SAM3UE, etc.
- ✓ JTAG 20 pins connects to target
- ✓ Supports hardware and software breakpoints
- ✓ Supports USB port connecting to host PC
- ✓ Downloads and debugs speed up to 250KBytes/s (about 1.5Mbps)
- ✓ Integrates seamlessly into IAR Embedded Workbench and Keil RealView MDK

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
STM32F103ZE -SK	Embest	NA	63R5736

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
STM32F103C8T6	ST	32Bit ARM Cortex	1447637	59M2182
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

555052-1	Tyco Electronics	RJ45 JACK	1557068	66F3284
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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

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
STM32F103C8T6	32-Bit Cortex ARM	1.1MB

Application Notes:

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