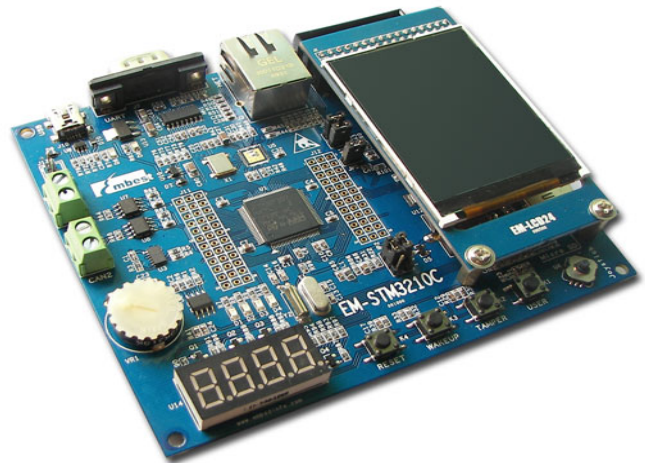embest

Embest - EM-STM32C - STM32F107 ARM Cortex-M3 Board

Product Overview:

The Embest STM32F107 ARM Cortex-M3 board is used the STMicroelectronics ARM Cortex-M3 core based STM32F107VC microcontroller, working at up to 72MHz frequency, with 256KB Flash and 64KB RAM internal memory. The board features a 2.4 inch TFT LCD Panel (320*240) with touch screen, as well as a wide rang of peripherals: mini USB supporting USB OTG , 10/100Mb Ethernet, Micro SD Card, TFT-LCD, ADC, DAC, SPI, IIC, RS232 (DB9), two CAN, speaker, earphone, five-position Joystick, Reset buttons, etc. In addition, there are plenty of example projects accompanied with this board, which enables engineers to evaluate the full features of the STM32F107VC processor and accelerate to design and develop their own projects based on this processor.

Kit Contents:

Take the EM-STM32C out of its box. Included in the box are:

- Embest STM32F107 ARM Cortex-M3 Board
- Mini USB Cable
- Serial Cable
- Net Cable
- 2.4 inch TFT LCD Panel
- CD-ROM

Key Features:

- Processor: STM32F107VC 32-bit ARM Cortex-M3 Core based MCU, 72MHz
- Internal memory: 256KB Flash & 64KB RAM
- Power supply by USB
- Support touchscreen connector interface extention
- 1 x 2.4 inch TFT LCD Panel with touch screen, 320*240
- 1 x mini USB interface supporting USB OTG

- 1 x 10/100Mb Ethernet interface
- 1 x Micro SD Card interface
- 1 x SPI interface
- 1 x IIC interface
- 1 x TFT LCD interface
- 1 x 20pins JTAG Debug interface
- 1 x potentiometer
- 4 x seven-segment digitron tube
- 1 x speaker
- 1 x earphone port
- 1 x five-position Joystick
- 1 x temperature sensor
- 4 x LEDs
- 1 x Reset button

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EM-STM32C	Embest	NA	64R5913

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
STM32F107RBT6	ST	32Bit ARM Cortex	1737138	52R2328
EMLINK-AH	Embest	Emlink for ARM	NA	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

<u>Document List:</u>

Datasheets:

Part Number	Description	Size
MAX3232	RS-232 Transceivers	752KB
LM1117DT-ADJ	800mA Low-Dropout Linear Regulator	647KB
STM32F107	32-Bit Cortex ARM	980KB

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
STM32F10x in-application programming using the USART	257KB