ET-STM32F103/512
(P-ET-A-00459)

ET-STM32F103
(P-ET-A-00366)

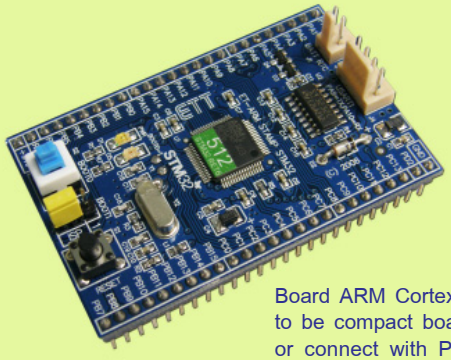
Specification of Board

- Use MCU 32 Bit ARM Cortex-M3 No.STM32F103RBT6 from ST Micro-electronics
- Has 128KB Flash Memory and 20KB Static RAM internal MCU
- Use Crystal 8.00 MHz + Phase-Locked Loop (PLL), Run 73MHz frequency with 1.25DMIPS/MHz speed to process data that is equal to 90 MIPS
- RTC Circuit (Real Time Clock) with X'TAL 32.768 kHz and Battery Backup
- Support In-System Programming (ISP) and In-Application Programming (IAP) through on-Chip Boot-Loader Software via PORT USART-1 (RS232)
- Circuit to connect with standard 20 PIN JTAG ARM Interface to debug as Real Time
- +5VDC Power Supply; in this case, user can use it from either USB Port or external CPA-2PIN Connector with +3.3V/3A Regulate Circuit internal board
- Standard USB 2.0 as Full Speed
- Circuit to connect with SD Card by using 1 Channel SPI Mode
- RS232 Communication circuit by using 2-Channel standard ETT 4-PIN Connector
- Circuit to connect with Dot-Matrix LCD with the circuit to adjust the brightness by using Standard ETT 14 PIN Connector with Jumper to select +3.3V or +5V Power Supply for LCD
- 2 Push Button Switch Circuits
- 8 LED Circuits to display status of testing Output
- 1 Circuit to generate 0-3.3V voltage by using adjustable Resistor to test A/D
- Has independent 46 Bit GPIO to apply to A/D,I2C,SPI and Input Output with Jumper to select ON/OFF signal for using as either GPIO or Hardware Self-Test such as 8 Bit LED, Push Button SW, Volume, USART2 and SD Card, so it makes user can select and use all functions perfectly without any limitation of Hardware system on board
  - Header 10Pin IDE (PA[0..7])
  - Header 10Pin IDE (PA[8..15])
  - Header 10Pin IDE (PB[0..7])
  - Header 10Pin IDE (PB[8..15])
  - Header 10Pin IDE (PC[0..7])
  - Header 10Pin IDE (PC[8..13])
- ET-STM32F103 consists of...

1. Board ET-STM32F103
2. CD-ROM User's Manual, Program DOWNLOAD, Example Programs
3. Cable Download RS232 DB 9 Pin

ET-ARM STAMP STM32F103/128
(P-ET-A-00370)

ET-ARM STAMP STM32F103/512
(P-ET-A-00371)



Board ARM Cortex-M3 32 BIT is designed to be compact board that is easy to apply or connect with PROJECT BOARD.There are 2 versions that are the same structures and circuits, but it only is different in the part of CPU as follows;

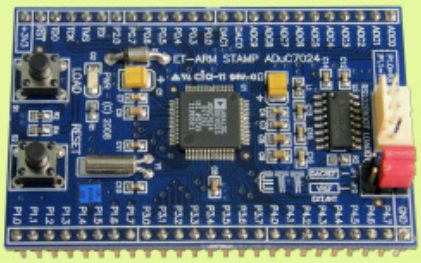
1. Version ET-ARM STAMP STM32F103/128 uses CPU No.STM32F103RBT6 that has 128 KBYTE FLASH Memory and 20 KBYTE RAM.
2. Version ET-ARM STAMP STM32F103/512 uses CPU No.STM32F403RET6 that has 512 KBYTE FLASH Memory and 64 KBYTE RAM.

- 32 BIT ARM Cortex-M3, RUN 72 MHz CLOCK/90MIPS
- 64 LQFP Packet 48 BIT I/O (16 External Interrupt) with 5V-Tolerant except A TO D that is not higher than 3.3V.
- Support programming into CPU through RS232 PORT on 4 PIN ETT ICL3232 On Board
- Board ET-ARM STAMP is placed on Connector 50 PIN HAEDER (25 PIN per each side with 2.54 mm. distance)
- 3.3 VDC POWER SUPPLY
- PCB Size: 40 x 65 mm.
- ET-ARM STAMP STM32 consists of...

1. Board
2. Cable DOWNLOAD ET-RS232 DB 9 PIN
3. CD-ROM User's Manual

ET-ARM STAMP ADUC7024
(P-ET-A-00374)

It is ARM7 Board No.ADUC7024 from ANALOG DEVICE Company that is designed as mini size, so it is easy to adapt it for many application or interface with PROJECT BOARD.



- Use ARM7 TDMI CORE MCU No.ADUC7024; Signal CLOCK 32.768 KHz; and can operate as PHASE LOCK LOOP, RUN 41.78 MHz, 64 PIN LQFP TYPE
- 62 KBYTE FLASH MEMORY, 8 KBYTE RAM
- A TO D 12 BIT 10 CH. (0 - 2.5V)
- D TO A 12 BIT 2 CH. (0 - 2.5V)
- 5 PORT I/O; P0(6 BIT), P1(8 BIT), P2 (1 BIT), P3(8 BIT), P4(8 BIT)
- I/O PIN is able to interface with Signal 5V
- RS232 PORT 4 PIN ETT 1 CH
- CONNECTOR is placed on 50 PIN HEADER in the distance range of 2.54 mm. (25 PIN per each side)
- PCB SIZE: 40 x 65 mm.
- 3.3 VDC POWER SUPPLY
- Can directly download program from computer PC into internal FLASH Memory through PORT RS232.
- ET-ARM STAMP ADUC7024 includes...

1. BOARD ET-ARM STAMP ADUC7024
2. CD-ROM User's Manual and Program
3. CABLE DOWNLOAD ET-RS232 DB 9 PIN F