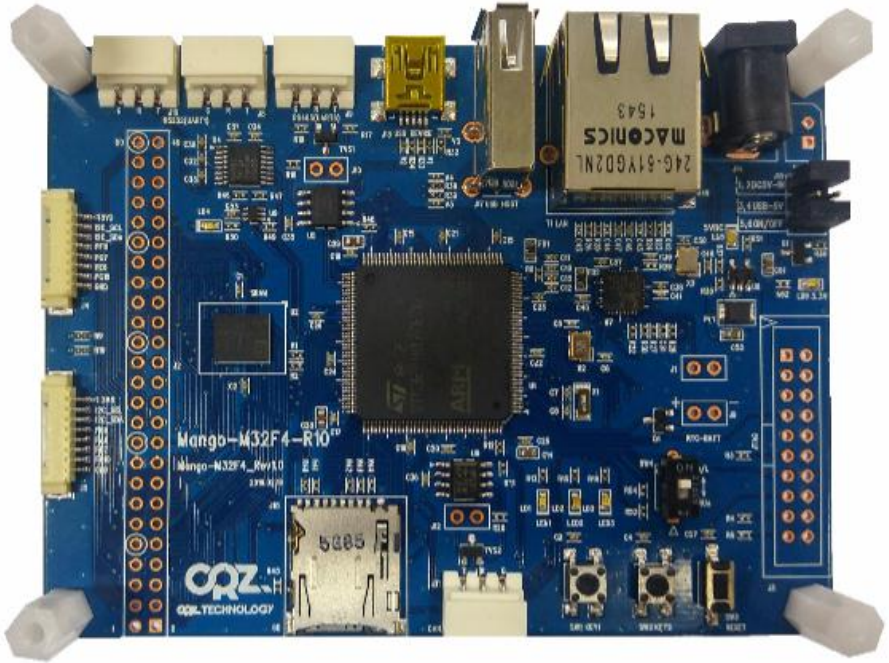
ORZ TECHNOLOGY

Quick Start Guide



Mango-M32F4

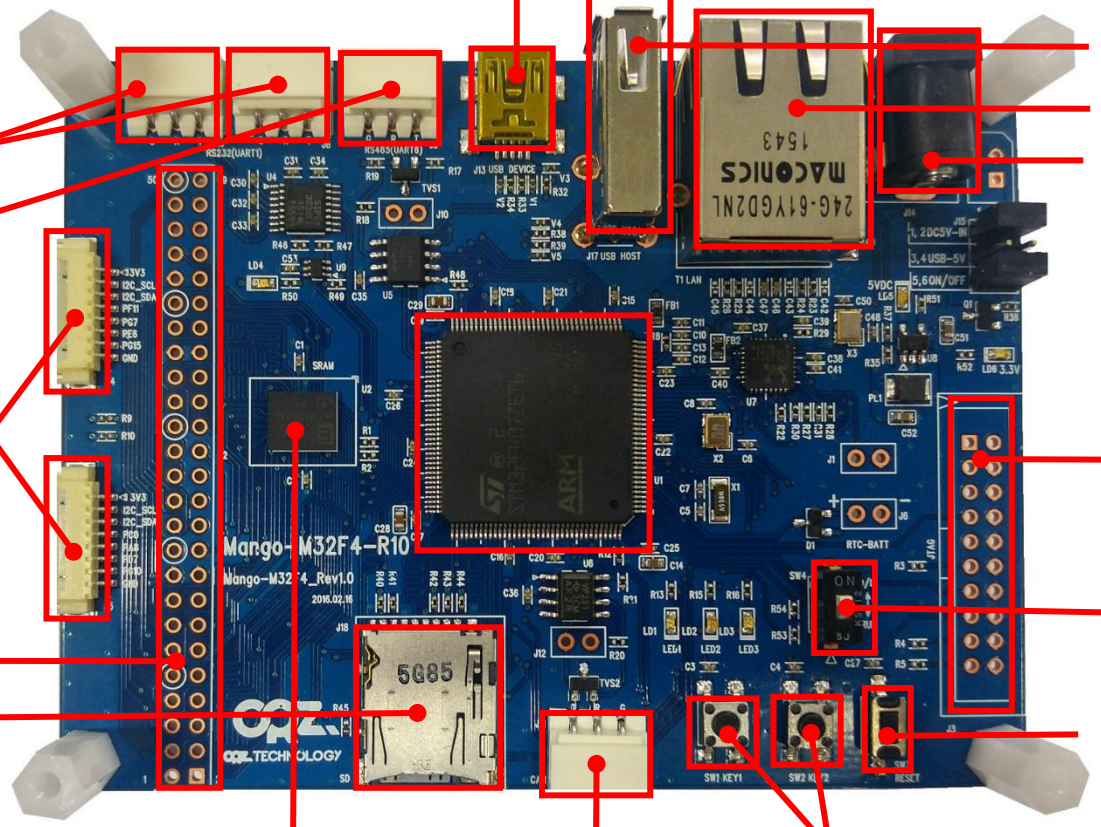
About the Mango–M32F4

- **STM32F407 CPU 탑재**
  - ARM Cortex-M4 32b MCU+FPU
  - 608 CoreMark
  - 180Mhz
  - 225 DMIPS
- **SRAM 192Kbytes**
- **Flash Memory 1MBytes**
- **Connectivity**
  - JTAG 20 Standard connector
  - RS232 (USART1) x 1
  - RS485 / RS232 (USART6) x 1
  - CAN x 1
  - Ethernet RTL8201 10/100Mbps x 1
  - USB Host x 1
  - USB device x 1
  - Micro SD card Slot x 1
- **Power : DC-JACK 5V, 1A**
- **Button : Button x 2**
- **Reset Button x 1**
- **LED indicator x 3**
- **Expansion Connector (8x2) : I2C GPIO etc**
- **Dimensions : 120 x 76mm**

Getting Started

- ❖ Boards : Mango-M32F4 Board, CM usb to RS232 module
- ❖ Cables : mini-usb Cable
- ❖ Power Supply : 5V /2A adapter
- ❖ Documentation : Quick Start Guide (this document)

Get to Know the Mango-M32F4



USB Device Connector

USB Host Connector

LAN Connector

Power Connctor

RS232 Connector

RS485 Connector

Expanstion Connector(1)

Jtag Connector

Boot Mode Switch

Expanstion Connector(2)

SD Connector

Reset KEY

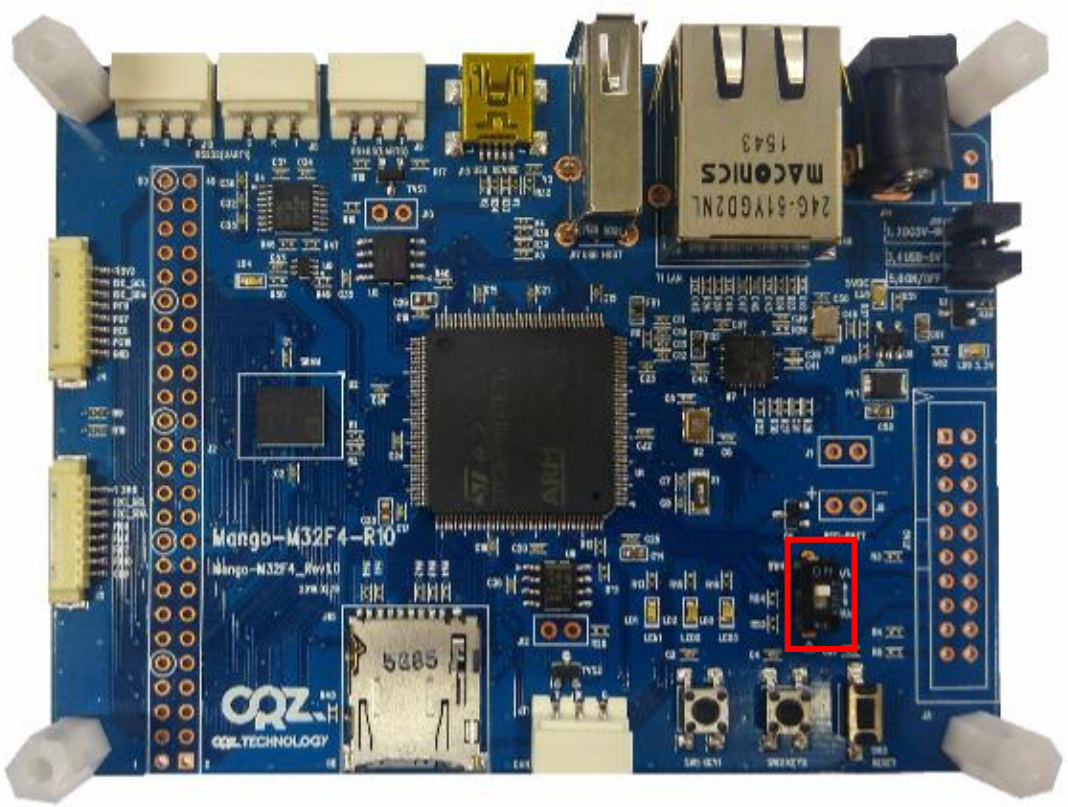
SRAM 1MBytes

CAN Connector

KEYS

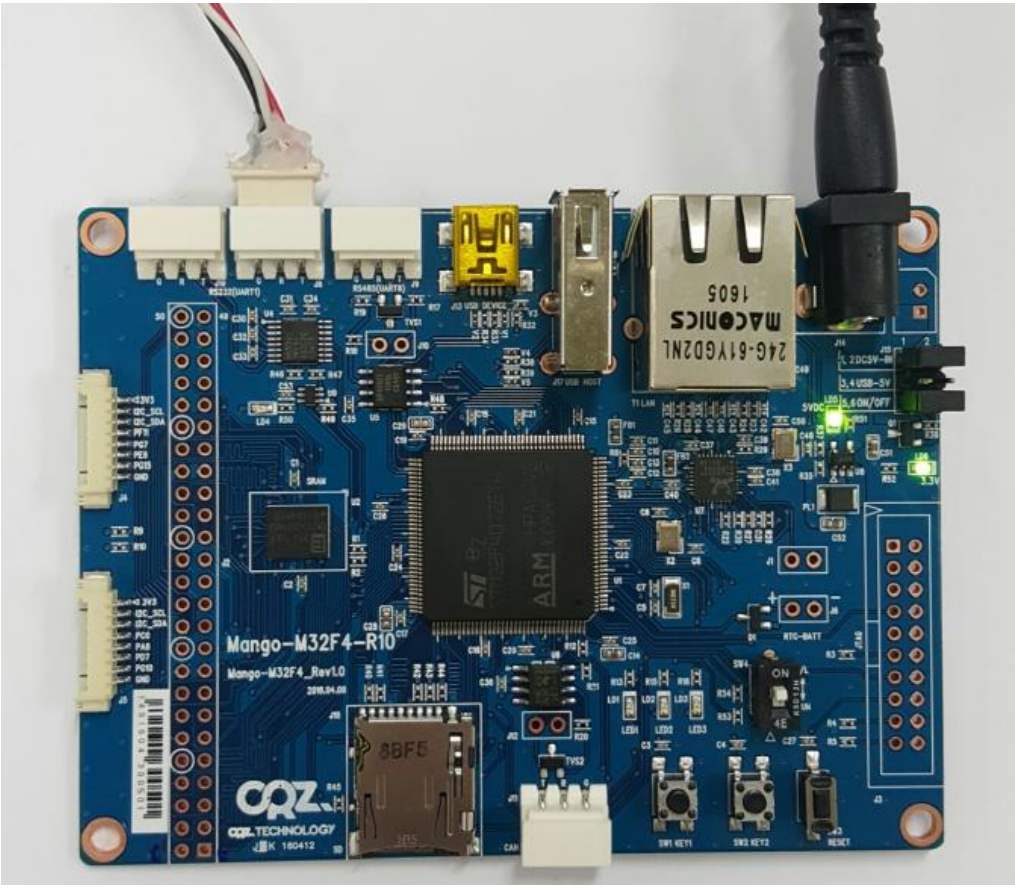
Setting up the Board

1 Mango-M32F4 보드 Boot Switch를 ON



Setting up the Board

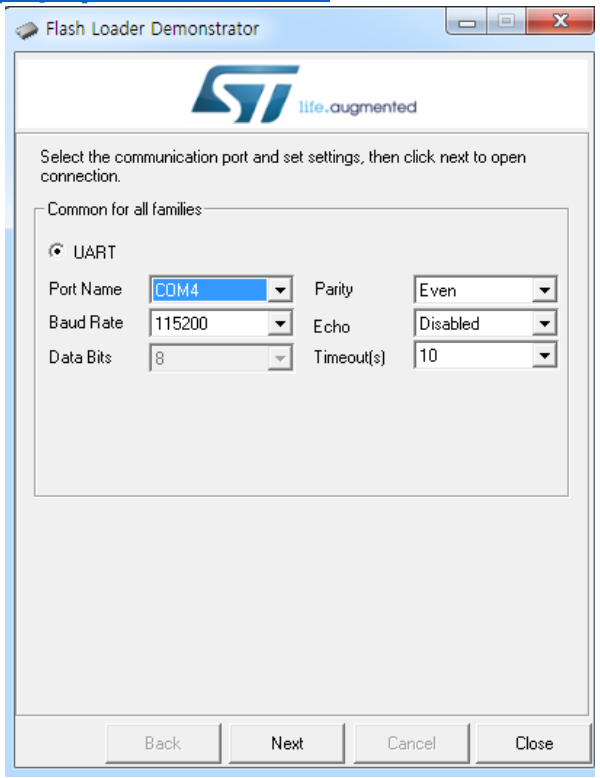
2 **Mango-M32F4보드에 3pin serial cable을 연결하고 5V 전원을 인가한다.**



Setting up the Board

3 **Demonstrator GUI 프로그램을 실행시켜 이미지를 write한다.**

[이미지 Download]



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Write 완료된 모습

Setting up the Board

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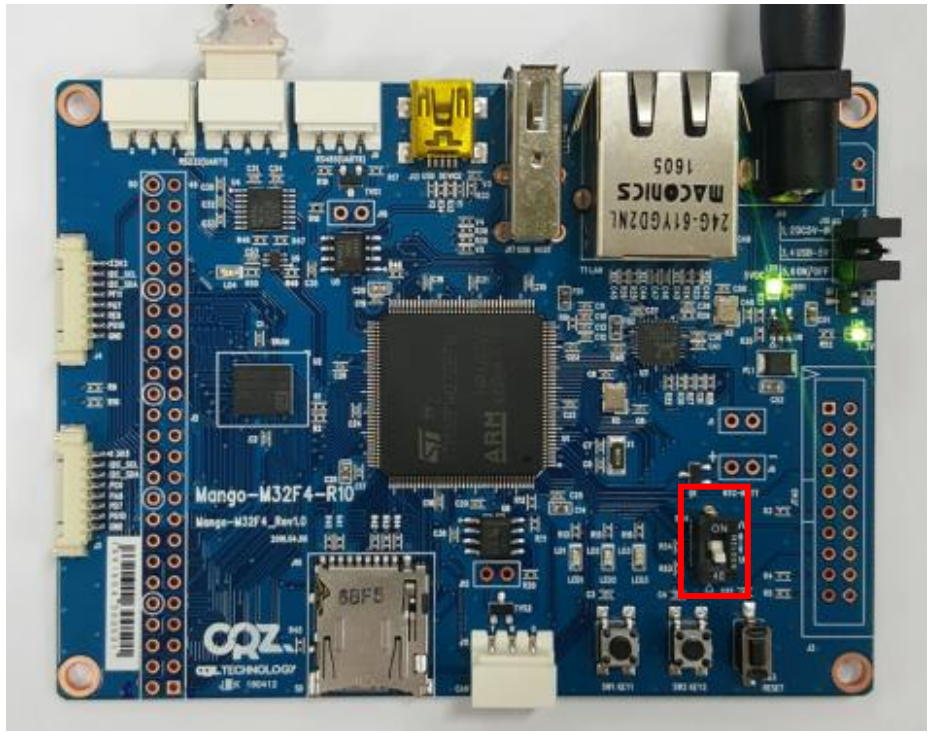
디버깅 메시지 확인

Boot Switch를 4E 방향으로 설정한 뒤, 터미널 창을 열어 디버깅 메시지를 확인한다.




```
[CRZ] LED_Initialization (22):
[CRZ] KEY_Initialization (190):
[CRZ] SRAM_Initialization (54):
[CRZ] SRAM_MspInit (225):
[CRZ] SRAM_Initialization (62): BSP_SRAM_Init OK.
[CRZ] main (123): Mango-M32F4, Date: Mar 18 2016, Time: 19:35:01
[CRZ] Wait_N_Seconds (43): Wait (1/1) second
[CRZ] Work_Event_Process (67): USER Key 1 released
[CRZ] Work_Event_Process (75): USER Key 2 released

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Press menu key
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1> LED Test
2> SDMMC Test
3> SRAM Test
4> USB Host Test
5> Ethernet HTTP Test
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x> exit
----------------------
```

For more information , visit
http://www.mangoboard.com
http://cafe.naver.com/embeddedcrazyboys