OVERVIEW

With the **M13-RA6M3-EK** evaluation board, users will be able to develop and evaluate applications by using the on-board rich features such as camera input, LCD display, ethernet connection any many more with Renesas RA6M33 MCU device.

FEATURE

MCU
- R7FA6M3AH3CFC MCU (LQFP176 Package)
- 120MHz, Arm Cortex®-M4 core
- 2MB Code Flash, 640KB SRAM

MEMORY/STORAGE
- 32MB External QSPI Flash
- 16Kb Eeprom
- Optional microSD interface
- 32MB SDRAM (See User Manual for details)

DEBUG
- On board debugger JLink-OB™ (SWD/JTAG)
- Virtual COM

GRAPHICS
- On board 4.3" TFT (480x272px)
- 8/10bit Camera Interface

OTHER FEATURES
- Ethernet (RMII and PHY)
- Audio Codec with 4 pole 3.5mm headphone connector
- 2 x USB connector (Host/Device)
- 3-axis Accelerometer
- 3 x user LEDs
- 2 x user switch
- 1 x Reset switch

EXPANSION
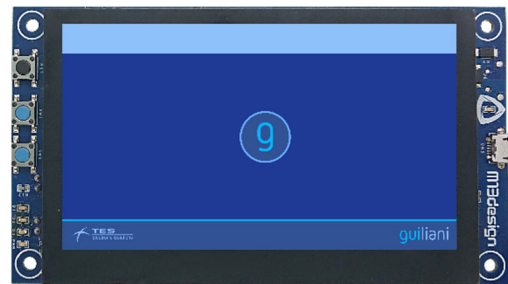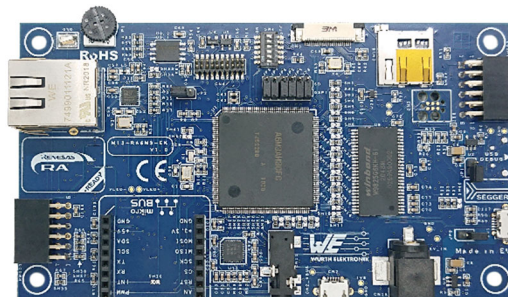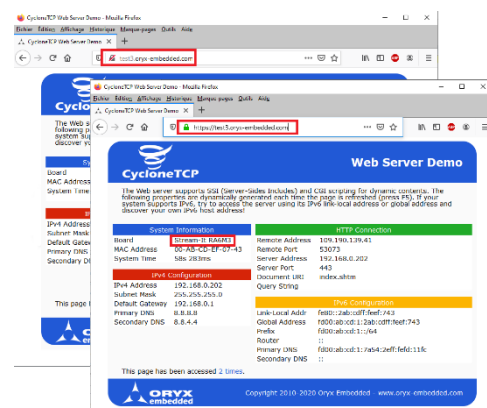- 2 x Digilent PMOD™ Interface
- 1 x Mikrobus™ Interface

KIT CONTENT
- M13-RA6M3-EK board

LCD side

Component side

Isometric view

DEMO SOFTWARE

- **HTTPS server with automatic certificate generation using ACME & Let's Encrypt:**
  Let's Encrypt is a non-profit certification authority used to secure billion of public websites free of charges. This RA6M3 demo project leverages the ACME protocol to automatically order a certificate from **Let's Encrypt** and get a green padlock in the address bar!

- **Wi-Fi / Ethernet gateway:**
  A Mikrobus™ Wi-Fi module is used to implement a gateway with multiple network interfaces. The project demonstrates the simultaneous use of Ethernet and Wi-Fi.

- **Web Radio demo**

- **Camera network streaming demo**

HTTPS server powered by ORYX CycloneTCP / CycloneSSL / CycloneACME

Find out more here: https://www.m13design.fr/products/M13-RA6M3-EK.html