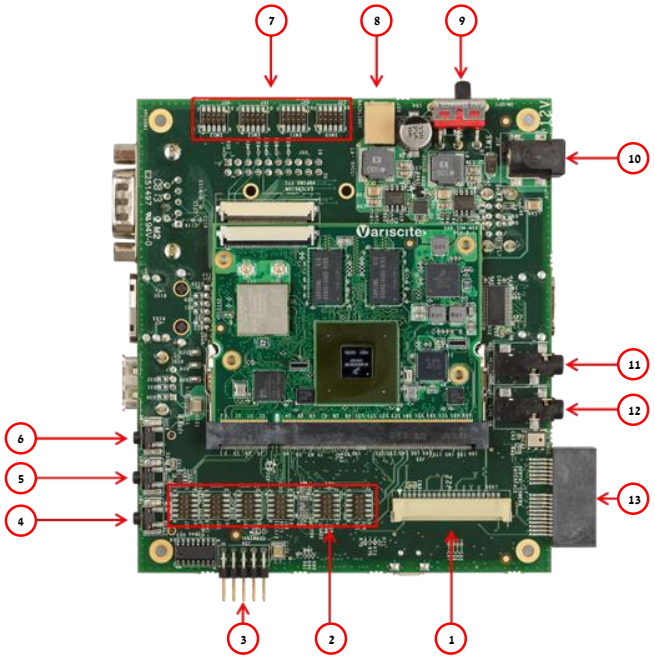
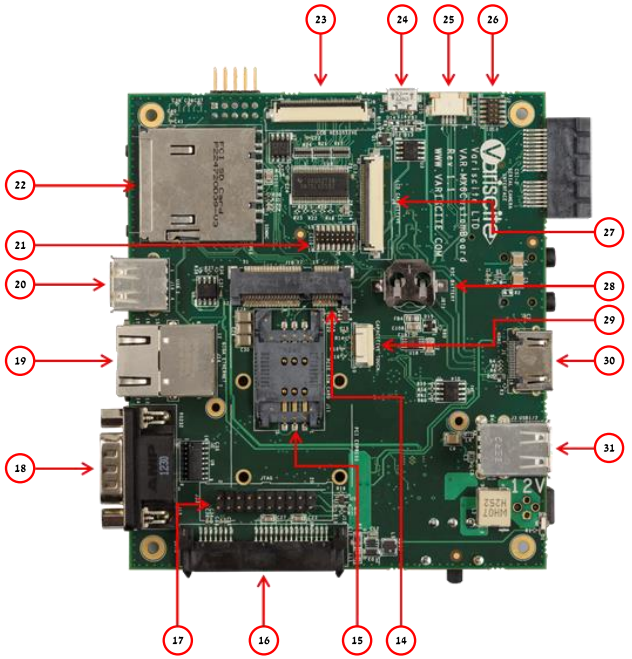
VAR-SOM-MX6 based on NXP's i.MX6 Evaluation Kit Quick Start Guide





Top side:

1. LVDS Display
2. Extension Headers
3. Debug UART (J34)
4. Reset Button
5. Boot Select button (SW3)
6. User/Back Button
7. Extension Headers
8. Capacitive LCD Backlight
9. On/Off switch (SW1)
10. 12V DC In Jack (J19)
11. Headphones
12. Line In
13. MIPI CSI-2 Camera - connects to Variscite's VAR-EXT-CB402 Camera board

Bottom side:

14. PCI Express
15. SIM Card
16. SATA
17. JTAG
18. UART DTE
19. Gigabit Ethernet
20. USB Host
21. Extension Header
22. SD Card (J13)
23. Resistive LCD
24. USB OTG
25. Resistive Touch
26. Extension Header
27. Capacitive LCD
28. RTC Battery Holder
29. Capacitive Touch
30. HDMI
31. USB Host x 2

Evaluation Kit initial Setup

1. Carefully remove the Evaluation Kit from the package.
2. Plug the RS232 cable between Debug UART connector (J34) and a PC serial interface (DTE).
   Note: Pin #1 on the RS323 cable marked with arrow should be connected To Pin #2 of J34 marked on PCB.
3. Plug the wall adapter's pin into the VAR-MX6CustomBoard 12V power jack (J19) and to a 120VAC~240VAC power source.

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Setting the Host PC for Debug

1. Download any PC terminal program. Variscite suggests using Putty
2. Set PC terminal software parameters as follows:
   - Baud Rate: 115200
   - Data bits: 8
   - Stop bits: 1
   - Parity: None
   - Flow Control: None

Using Default file System

1. Switch ON (leftwards) the On/Off switch (SW1).
2. Boot messages are printed within PC's terminal window.

Booting from SD Card

The SD card is supplied within the package. The image can be also downloaded from Variscite FTP site. Please refer to "Burning Recovery File System" section.

1. Verify Switch SW1 is OFF.
2. Push SD card into the SD card slot (J13) of the VAR-MX6CustomBoard.
3. Press and hold down Boot select button (SW3) to boot from SD Card.
4. Switch ON (leftwards) the On/Off switch (SW1).
5. Wait for 5 sec and release the Boot Select button.
6. Boot messages are printed within PC's terminal window.

Burning Recovery File System

Please refer to Variscite's wiki pages for preparing recovery SD card and burning internal storage (NAND/eMCC) at:
http://variwiki.com/index.php?title=Yocto_Recovery_SD_card_latest

Additional Support Links

1. Wiki pages:
   http://variwiki.com/index.php?title=Main_Page
2. Variscite Customers Portal:
   https://varisciteportal.axosoft.com/login
3. VAR-SOM-MX6 Evaluation Kit:
   http://www.variscite.com/products/evaluation-kits/var-som-mx6-kits
4. VAR-SOM-MX6:
   http://www.variscite.com/products/system-on-module-som/cortex-a9/var-som-mx6-cpu-freescale-imx6
5. VAR-MX6CustomBoard:
   http://www.variscite.com/products/single-board-computers/var-mx6customboard

Thank you for purchasing Variscite's product.

Register at **Variscite Customer Portal** to get high quality engineering support for this product:
https://varisciteportal.axosoft.com/login