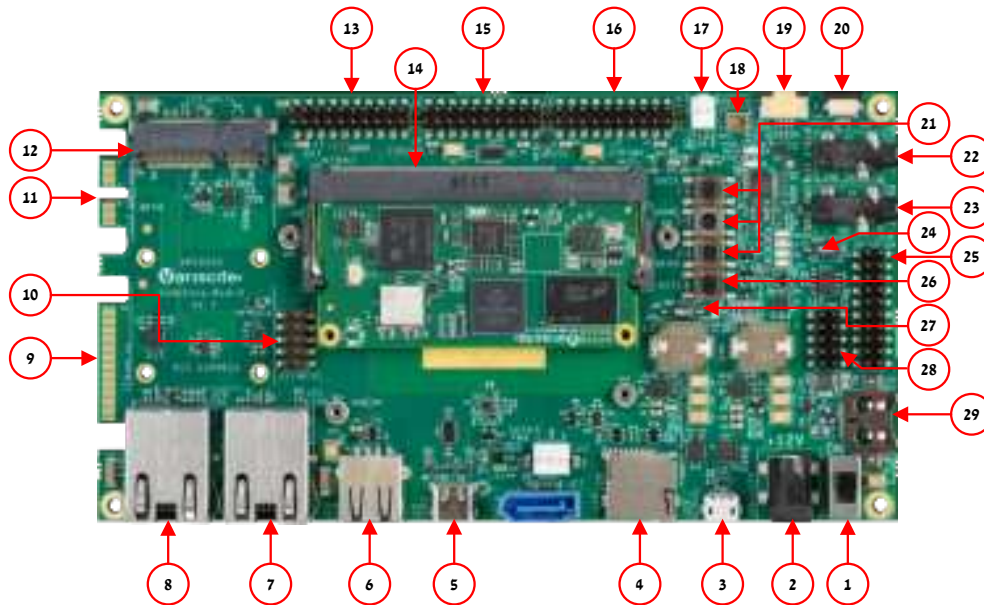


VAR-SOM-MX91 based on NXP i.MX 91

Evaluation Kit Quick Start Guide



Features:

1. Power ON Switch (SW7)
2. 12V DC In Jack (J24)
3. USB Debug (J29)
4. micro-SD Card slot (J28)
5. USB 3.0 OTG (J26)
6. USB 2.0 Host (J23)
7. Gigabit Ethernet #0 (J21)
8. Gigabit Ethernet #1 (J20)
9. MIPI-CSI #1 Camera connector [optional] (J19)
10. Miscellaneous Header #1 (J17)
11. HDMI/ MIPI-CSI #2 Camera connector [not in use] (J13)
12. Mini PCI Express Connector [not in use] (J15)
13. Miscellaneous Header #2 (J3)
14. SOM Connector (J1)
15. LVDS#B Header [not in use] (J5)
16. LVDS#A/ DSI Header [not in use] (J7)
17. Fan Power Connector (J9)
18. Digital Microphone (U1)
19. Resistive Touch (J10)
20. Capacitive Touch (J11)
21. User Buttons (SW1, SW2, SW4)
22. Line-In Connector (J12)
23. Headphones Connector (J14)
24. Boot Select Switch (SW3)
25. SAI/I2C/SPI/CAN Header (J16)
26. Reset Button (SW5)
27. PWR Select Switch (SW6)
28. UART/PWM Header (J18)
29. RTC Battery Holder (JBT1)

Evaluation kit initial setup

Plug the USB type A to micro-B cable between the USB debug connector (J29) and a PC USB port.

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Evaluation Kit Quick Start Guide

Setting the host PC for debug

1. Download any PC terminal software (e.g. [Putty](#)).
2. Set the PC terminal software parameters as follows:
 - Baud Rate: 115200
 - Data bits: 8
 - Stop bits: 1
 - Parity: None
 - Flow Control: None

Bootling from Emmc

1. Set Boot select switch (SW3) to "Internal" position to boot from the VAR-SOM-MX91 internal storage.
2. Plug the wall adapter into the 12V power jack (J24) and to a 120VAC~240VAC power source.
3. Set Power ON switch (SW7) to ON state.
4. Boot messages are printed within the PC terminal window.

Bootling from a micro SD card

The microSD card is supplied within the package. Updated SD card images can also be downloaded from the Variscite FTP server. See more details in the recovery SD card section in the Variscite Wiki pages.

1. Set Power ON switch (SW7) to off state.
2. Set Boot select switch (SW3) to "SD" position in order to boot from SD Card.
3. Push microSD card into the microSD card slot (J28) of the Symphony-Board.
4. Set Power ON switch (SW7) to ON state.
5. Boot messages are printed within PC's terminal window.

(Re-)Installing the file system to eMMC

Please refer to the recovery SD card section in the Variscite Wiki pages.

Links

- Wiki page:
<https://variwiki.com/index.php?title=VAR-SOM-MX91>
- VAR-SOM-MX91 Evaluation kits:
<https://www.variscite.com/product/evaluation-kits/var-som-mx91-evaluation-kits/>
- VAR-SOM-MX91 System on Module:
<https://www.variscite.com/product/system-on-module-som/cortex-a55/var-som-mx91-nxp-i-mx91/>
- Symphony carrier board:
<https://www.variscite.com/product/single-board-computers/symphony-board/>
- Customer portal:
<https://varisciteportal.axosoft.com/login>

Thank you for purchasing Variscite's product.

For additional assistance please contact:
sales@variscite.com