



Variscite VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit User Guide

[Home](#) » [Variscite](#) » Variscite VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit User Guide 

Contents

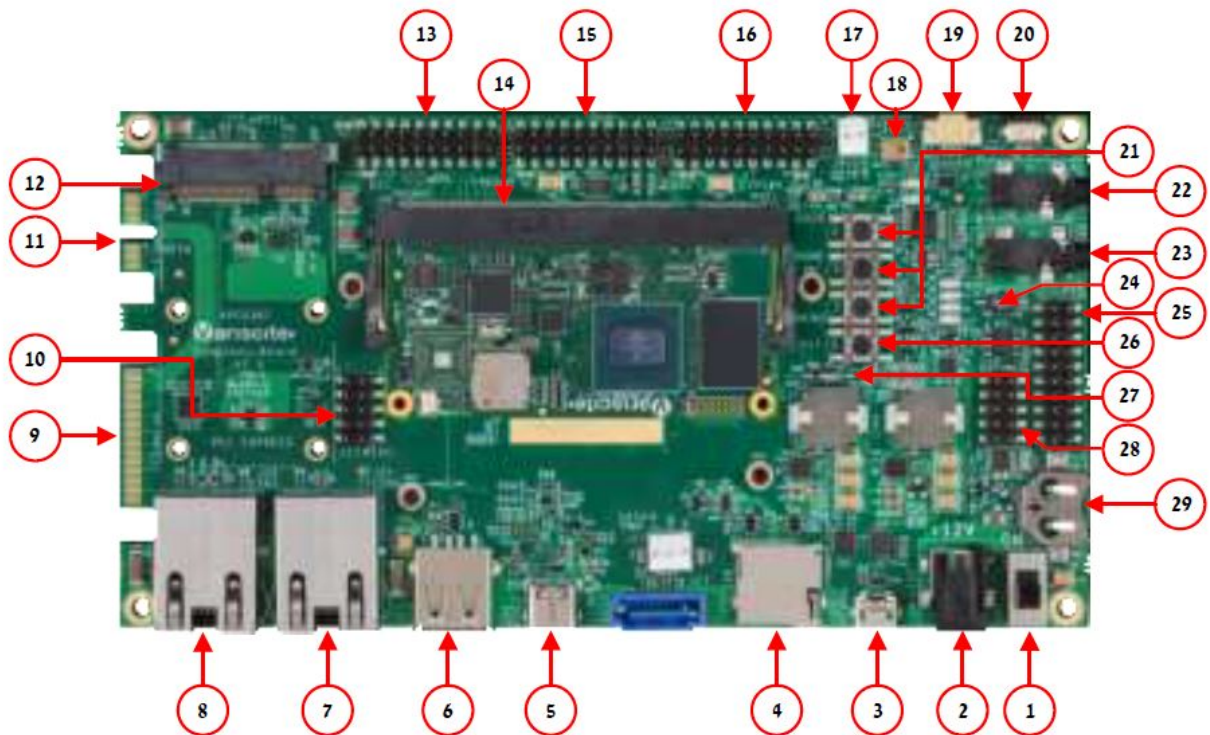
- [1 Variscite VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit](#)
- [2 VAR-SOM-MX8M-PLUS based on NXP i.MX 8M Plus Evaluation Kit Quick Start Guide](#)
 - [2.1 Features](#)
 - [2.2 Setting the host PC for debug](#)
- [3 Documents / Resources](#)
 - [3.1 References](#)
- [4 Related Posts](#)



Variscite VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit



VAR-SOM-MX8M-PLUS based on NXP i.MX 8M Plus 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 [optional] (J13)
- 12. Mini PCI Express Connector (J15)
- 13. Miscellaneous Header #2 (J3)
- 14. SOM Connector (J1)
- 15. LVDS#B Header (J5)
- 16. LVDS#A/ DSI Header (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

1. Carefully remove the 7" LCD and Symphony-Board from the package.
2. Connect the 7" LCD Display and Touch cables to the Evaluation Kit connectors J7, J11 respectively.
Note: connect the display cable with the red wire on pin 1. Connect the touch cable with the metal contacts facing down.
3. Plug the USB type A to micro B cable between the USB debug connector (J29) and a PC USB port.



4. For heatsink assembly instructions, please follow the VHP-VS8M documentation.

Please note that the heatsink is mainly used for CPU/GPU intensive applications and may be required per your specific use case.



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

Booting from eMMC

1. Set Boot select switch (SW3) to “Internal” position to boot from the VAR-SOM-MX8M-PLUS 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.

Booting 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-MX8M-PLUS>

- VAR-SOM-MX8M-PLUS Evaluation kits: <https://www.variscite.com/product/evaluation-kits/var-som-mx8m-plus-evaluation-kits/>
- VAR-SOM-MX8M-PLUS System on Module: <https://www.variscite.com/product/system-on-module-som/cortex-a53-krait/var-som-mx8m-plus-nxp-i-mx-8m-plus/>
- 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

Documents / Resources

	Variscite VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit [pdf] User Guide VAR-SOM-MX8M-PLUS Based on NXP i.MX 8M Plus Evaluation Kit, VAR-SOM-MX8M-PLUS, Based on NXP i.MX 8M Plus Evaluation Kit, NXP i.MX 8M Plus Evaluation Kit, Plus Evaluation Kit, Evaluation Kit
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References

-  [Download PuTTY - a free SSH and telnet client for Windows](#)
-  varisciteportal.axosoft.com/login
-  [VAR-SOM-MX8M-PLUS | Variscite Wiki](#)
-  [Leading ARM System On Module \(SoM\) designer and manufacturer | Variscite](#)
-  [VAR-SOM-MX8M-PLUS Evaluation Kits based on i.MX 8M Plus- Variscite](#)
-  [Leading ARM System On Module \(SoM\) designer and manufacturer | Variscite](#)
-  [Symphony-Board ARM Single Board Computer - Variscite](#)
-  [Leading ARM System On Module \(SoM\) designer and manufacturer | Variscite](#)
-  [VAR-SOM-MX8M-PLUS: NXP i.MX 8M Plus ARM System on Module](#)