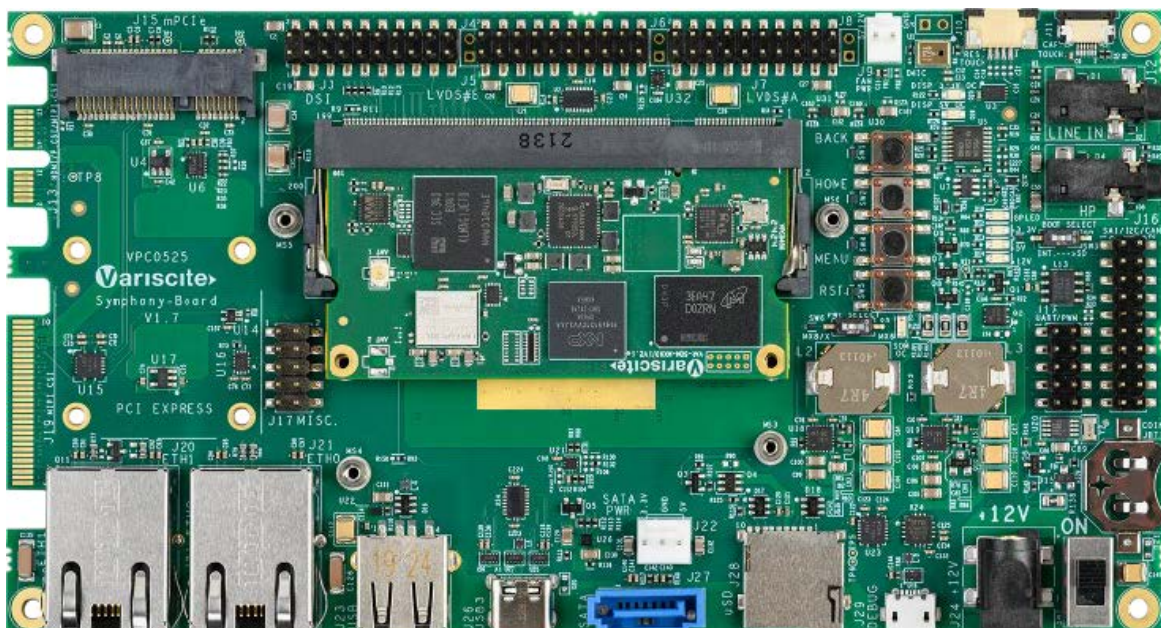


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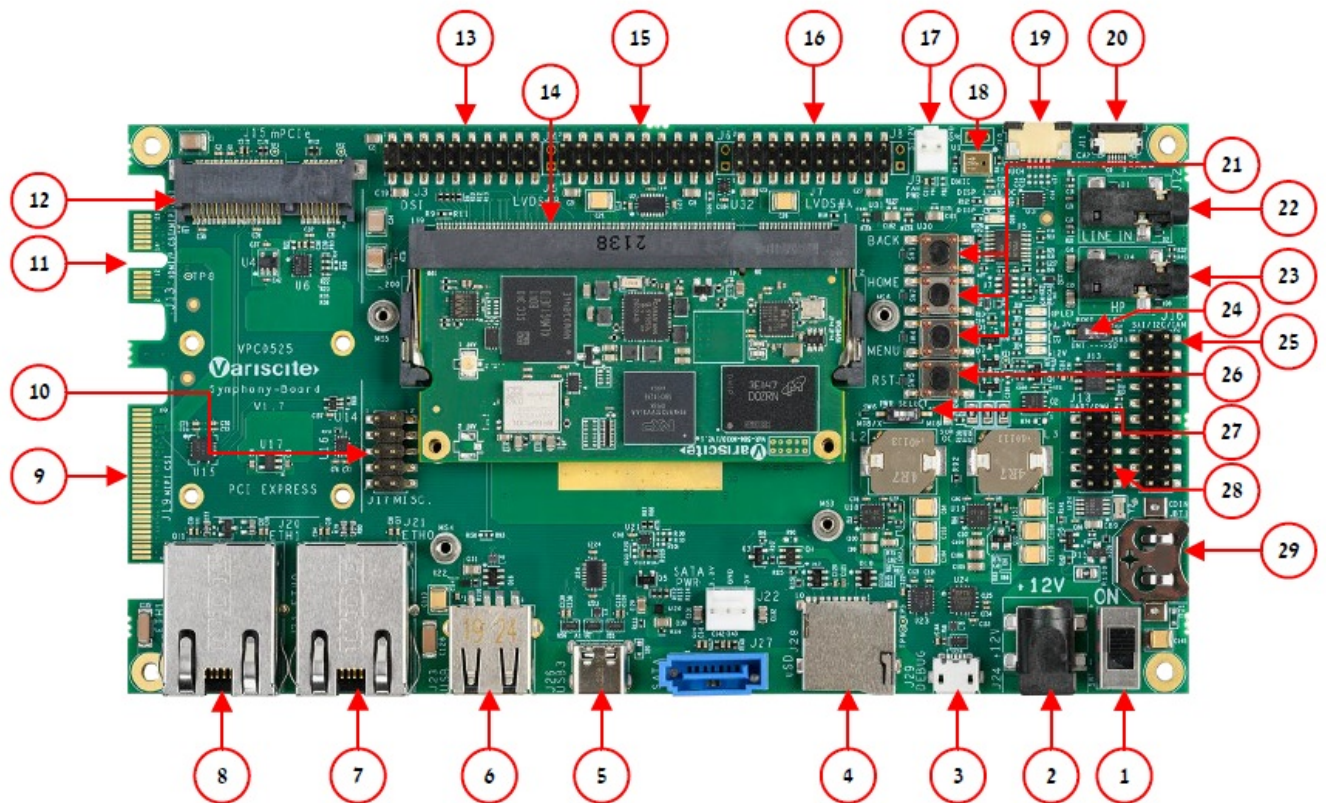
- [1 Variscite MX8X Based on NXP i.MX 91 Evaluation Kit](#)
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Variscite MX8X Based on NXP i.MX 91 Evaluation Kit



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)

PRODUCT USING INSTRUCTIONS

Evaluation kit initial setup

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

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-MX93 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-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.

FAQs

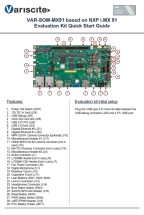
- **Q: Where can I download updated SD card images?**

- **A:** Updated SD card images can be downloaded from the Variscite FTP server.
See more details in the recovery SD card section in the Variscite Wiki pages.

- **Q: How can I contact Variscite for additional assistance?**

- **A:** For additional assistance, please contact sales@variscite.com.

Documents / Resources

	Variscite MX8X Based on NXP i.MX 91 Evaluation Kit [pdf] User Guide MX8X, MX91, MX8X Based on NXP i.MX 91 Evaluation Kit, Based on NXP i.MX 91 Evaluation Kit, NXP i.MX 91 Evaluation Kit, Evaluation Kit
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References

-  varisciteportal.axosoft.com/login
-  [One moment, please...](#)
-  [One moment, please...](#)
-  [One moment, please...](#)
- [User Manual](#)

■ Variscite

◆ Based on NXP i.MX 91 Evaluation Kit, Evaluation Kit, MX8X, MX8X Based on NXP i.MX 91 Evaluation Kit, MX91, NXP i.MX 91 Evaluation Kit, Variscite

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