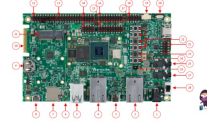


Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit



Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit User Guide

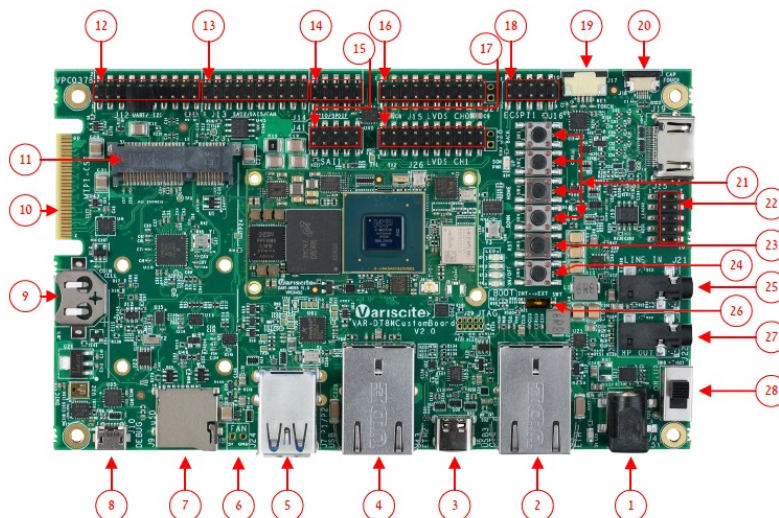
[Home](#) » [Variscite](#) » Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit User Guide 

Contents

- [1 Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit](#)
- [2 Product Usage Instructions](#)
- [3 Features](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)



Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit



Specifications

- Product: DART-MX95 based on NXP i.MX95 Evaluation Kit

- Processor: NXP i.MX95
- Display: 7" LCD
- Storage: eMMC and microSD card support
- Connectivity: USB, Touchscreen
- Power: 5V

Product Usage Instructions

Evaluation Kit Initial Setup

1. Carefully remove the 7" LCD and VAR-DT8MCustomBoard from the package.
2. Connect the 7" LCD Display and Touch cables to the Evaluation Kit connectors J15, J18 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 (J10) and a PC USB port.
4. For heatsink assembly instructions, please refer to the VHP-DT8MM/P documentation. Note: 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. For internal boot: Set the Boot select switch (SW7) to INT position to boot from the SOM's internal storage.
2. Plug the wall adapter into the 5V power jack (J4) and to a 120VAC~240VAC power source.
3. Set Power ON switch (SW8) to ON state.
4. Boot messages should be printed within the PC terminal window.

Booting from a Micro SD Card

1. Set Power ON (SW4) to off state.
2. Set Boot select switch (SW7) to EXT side in order to boot from the SD card.
3. Push microSD card into the microSD card slot (J9) of the VAR-DT8MCustomBoard.
4. Set Power ON switch (SW8) to ON state.
5. Boot messages should be printed within the PC terminal window.

FAQ

- **Where can I find more information about Variscite's DART-MX95 products?**
 - You can visit Variscite's website at the following links:
 - [Wiki](#)
 - [page](#)
 - [DART-MX95 Evaluation kits](#)
 - [DART-MX95 System on Module](#)
 - [VAR-DT8CustomBoard carrier board](#)
 - If you need further assistance, you can contact Variscite at sales@variscite.com.

Features

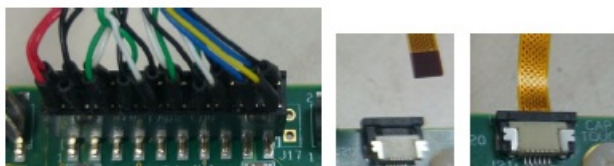
1. 5V PWR IN (J4)
2. Gigabit Ethernet #1 (J5)
3. USB 3.0 OTG (J6)
4. Gigabit Ethernet #2 (J43)
5. . Dual USB 2.0 Host (J7)
6. FAN 5V (J24)
7. micro SD Card slot (J9)
8. USB Debug (J10)
9. RTC BAT. Slot (JBT1)
10. Single MIPI-CSI (J11)
11. Mini PCIe #1 (J23)
12. UART, I2C (J12)
13. SAI1, PDM, CAN (J13)
14. UART, SPDIF,GPIO (J14)
15. QSPI (J41)
16. LVDS CH0 (J15)
17. LVDS CH1 (J26)
18. ECSPi, Host wake ,CAN(J16)
19. Resistive Touch (J17)
20. Capacitive Touch (J18)
21. User Buttons (SW1-SW4)
22. GPIO (J25)
23. Reset Button (SW5)
24. ON/OFF Button (SW6)
25. Line In (J21)
26. Boot Select Switch (SW7)
27. Headphones (J22)
28. Power ON (SW8)

Evaluation kit initial Setup

1. Carefully remove the 7" LCD and VAR-DT8MCustomBoard from the package.

2. Connect the 7" LCD Display and Touch cables to the Evaluation Kit connectors J15, J18 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 (J10) and a PC USB port.

4. For heatsink assembly instructions, please follow the VHP-DT8MM/P documentation. Please note that the heatsink is mainly used for CPU/GPU intensive applications and may be required per your specific use case.

Documents / Resources

	<p>Variscite DART-MX95 Based on NXP i.MX95 Evaluation Kit [pdf] User Guide DART-MX95, DART-MX95 Based on NXP i.MX95 Evaluation Kit, DART-MX95, Based on NXP i.MX95 Evaluation Kit, Based on NXP i.MX95, NXP i.MX95 Evaluation Kit, Evaluation Kit</p>
---	---

References

-  varisciteportal.axosoft.com/login
- [User Manual](#)

Pages: 1 [2](#)

[Manuals](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.