DART-MX8M-MINI based on NXP i.MX8M Mini Evaluation Kit Quick Start Guide

Features:
1. 5V PWR IN (J4)
2. Gigabit Ethernet #1 (J5)
3. USB 2.0 OTG (J6)
4. Dual USB 2.0 Host (J7)
5. FAN 5V (J24)
6. micro SD Card slot (J9)
7. USB Debug (J10)
8. RTC BAT. Slot (JBT1)
9. Single MIPI-CSI (J11)
10. Mini PCIe #1 (J23)
11. UART, I2C (J12)
12. SAI2, SAI5, PDM, CAN (J13)
13. GPIO, SPDIF (J14)
14. QSPI (J41)
15. LVDS CH0 (J15)
16. LVDS CH1 (J26)
17. ECSPI, Host wake (J16)
18. Resistive Touch (J17)
19. Capacitive Touch (J18)
20. User Buttons (SW1-SW4)
21. SAI1 (J25)
22. Reset Button (SW5)
23. ON/OFF Button (SW6)
24. Line In (J21)
25. Boot Select Switch (SW7)
26. Headphones (J22)
27. 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.
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

(Re-)Installing the file system to eMMC

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

Links

- VAR-DT8MCustomBoard: https://www.variscite.com/products/single-board-computers/var-dt8mcustomboard/
- Customer portal: https://varisciteportal.axosoft.com/login

Thank you for purchasing Variscite’s product.

For additional assistance please contact: sales@variscite.com