SPEAR-MX8 based on NXP i.MX8 Evaluation Kit Quick Start Guide

Features:
1. DMIC (U38)
2. USB Debug (J40)
3. Mini PCIe (J37)
4. Gigabit Ethernet 0 (J33)
5. Debug port select (SW8, SW9)
6. Gigabit Ethernet 1 (J34)
7. SD-MMC (J36)
8. USB3.0 OTG (J41)
9. Dual USB2.0 Host (J35)
10. Power supply LEDs (D26, D29, D30)
11. 12V DC In (J43)
12. 12V DC In LED (J28)
13. On/Off switch (SW10)
14. USB2.0 OTG (J30)
15. Reset, On/Off button (SW5, SW7)
16. Boot Select Switch (SW6)
17. MIPI CSI-2 Camera Extension (J25)
18. User Buttons (SW1, SW2, SW3, SW4)
19. Display Port (J22)
20. HDMI Port (J19)
21. User LEDs (D3, D5, D6, D8)
22. Capacitive Touch (J8)
23. Resistive Touch (J7)
24. FAN (J21)
25. Coin Cell Battery (JBT1)
26. LVDS Over Current LEDs (D31, D32)
27. LVDS 0 (J11, J12, J17, J18)
28. LVDS 1 (J9, J10)
29. SATA Power (J6)
30. DSI (J14, J15, J16)
31. SATA
32. HDMI In (J13)
33. SPI, M40 (J20)
34. CAN, RS485, SPdif (J23)
35. MLB, SAI (J24)
36. CAN, UART, I2C (J26)
37. ADC, SNVS (J29)
38. Headphones (J31)
39. Line In (J32)

Evaluation kit initial Setup
1. 7" LCD Display: connect the display cable to J11 with the red wire on pin 1 and the touch cable to J8 with the metal contacts facing down.
2. Plug the USB type A to micro B cable between the USB Debug connector (J40) and a PC USB port.
3. Select A53 Debug Port by setting SW8 to On.
4. Peel off the plastic layer from the heat sink and place the sticky surface on the center of the SOC.
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-SP8CustomBoard: https://www.variscite.com/product/single-board-computers/var-sp8customboard/
- Customer portal: https://varisciteportal.axosoft.com/login

Thank you for purchasing Variscite’s product.

For additional assistance please contact: sales@variscite.com