

## Features

1. 12V PWR IN (J30)
2. Dual USB3.0 Host (J28)
3. Dual USB2.0 Host (J29)
4. USB 2.0 OTG (J33)
5. micro SD Card slot (J32)
6. USB Debug (J31)
7. FAN 12/5V (J21)
8. SFP+ 10Gb ETH (J25) – N/A
9. Reset Button (SW9)
10. ON/OFF Button (SW11)
11. Gigabit Ethernet #0 (J27)
12. BOOT Select Switches (SW7)
13. Gigabit Ethernet #1 (J26)
14. Dual MIPI-CSI (J24)
15. User Buttons (SW5 SW6 SW8 SW10)
16. PCIe M.2 M Key #B (J19) - N/A
17. MINI Display Port (J17) – N/A
18. PCIe M.2 M Key #A (J18)
19. MINI HDMI (J13)
20. UART, QSPI (J15)
21. I2C, CAN (J6)
22. DSI (J7) – N/A
23. LVDS CH1 (J8)
24. LVDS CH0/DSI (J10)
25. GPIO (J12)
26. Internal DMIC (U10)
27. Capacitive Touch (J5)

28. Internal Line In (J14)
29. Internal Headphones (J16)
30. External Line In (J20)
31. External Headphones (J22)
32. External DMIC (U37)
33. Power ON (SW12)

## Evaluation kit initial setup

1. Carefully remove the 7" LCD and Sonata-Board from the package.
2. Connect the 7" LCD display and touch cables to the evaluation kit connectors J10, J5 respectively.

*Note: connect the display cable with the red wire on pin 1. Connect the touch cable with the metal contacts facing down.*



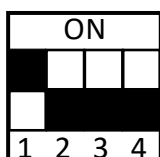
3. Plug the USB type A to USB-C cable between the USB debug connector (J31) and a PC USB port.

## 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. For internal boot:  
Set the Boot select switches (SW7) as follows:

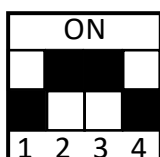


2. Plug the wall adapter into the 12V power jack (J30) and to a 120VAC~240VAC power source.
3. Set Power ON switch (SW12) to ON state.
4. Boot messages should be printed within the PC terminal window.

## 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 (SW12) to off state.
2. Set Boot select switches (SW7) as follows:



3. Push microSD card into the microSD card slot (J32) of the Sonata-Board.

4. Set Power ON switch (SW12) to ON state.
5. Boot messages should be printed within the PC terminal window.

## (Re-)Installing the file system on the eMMC

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

## Support



[Visit our support center](#)

**Thank you for purchasing  
Variscite's product.**

**For additional assistance please contact:  
[sales@variscite.com](mailto:sales@variscite.com)**