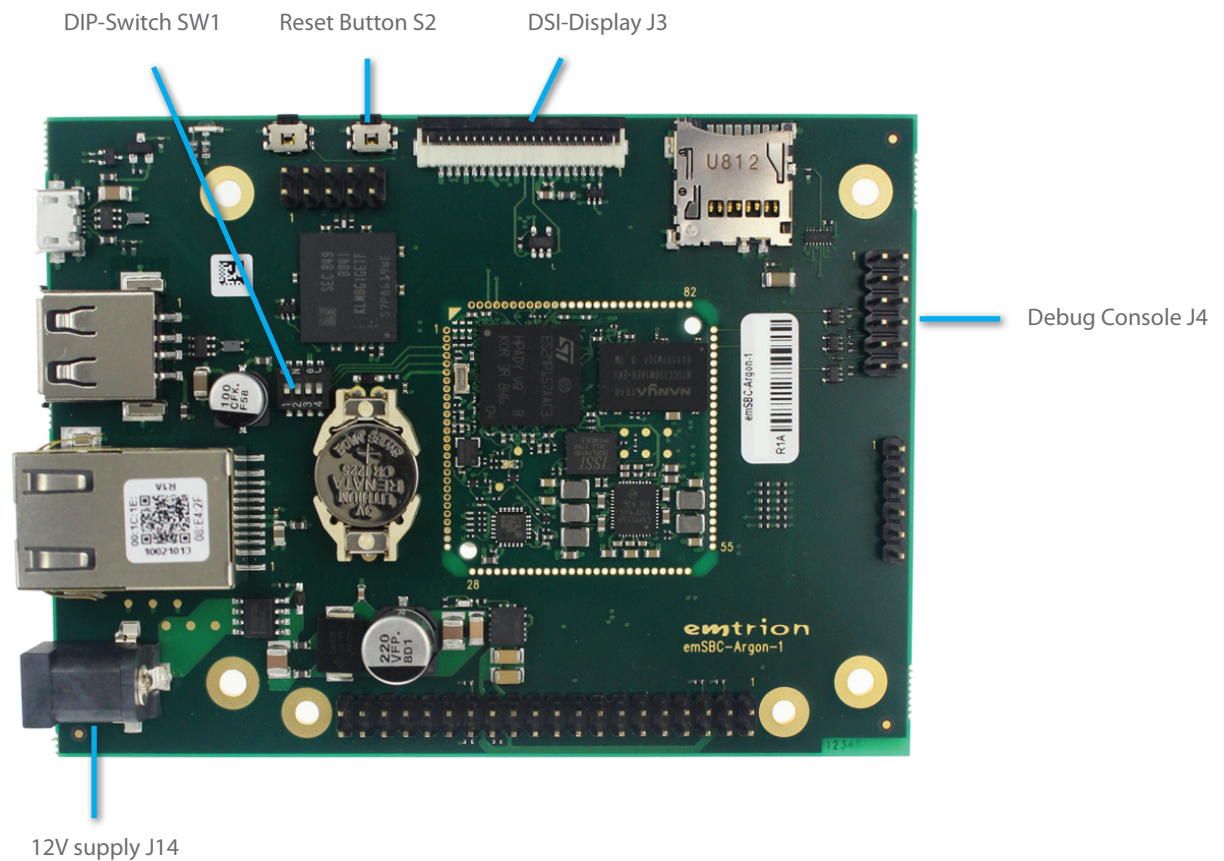


emSBC-Argon Development Kit with Linux

Connecting

Connector Overview



Setting Up the Developer Kit

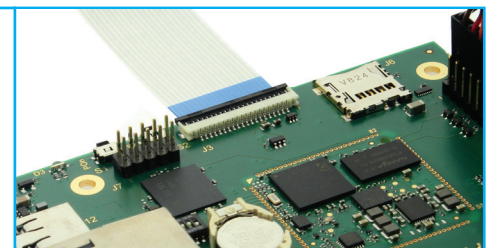
1. Introduction

The developer kit emSBC-Argon is preconfigured and ready to use. The operating system (e.g. Linux Yocto) is already installed on the eMMC of the kit. All you have to do is to connect a FTDI-serial-to-USB cable and a 12V power supply to the emSBC-Argon.

After power is switched on the module starts up to the login prompt. The default username is "root", a password is not needed. After successful login, the display shows the Linux prompt.

2. DSI-Display Connections (not relevant for headless kits)

The DSI-display needs to be plugged into the connector J3 of the emSBC-Argon. Insert the supplied foil cable with its contacts on the bottom side (blue stiffener faces up) into the FCC connector J3 and close the lid.



3. Power Supply

The emSBC-Argon Kit has a nominal input voltage range of 7-12 VDC +/-5% at maximum 1 A. An appropriate power supply is contained in the kit. The power supply is connected to J14 of the emSBC-Argon.

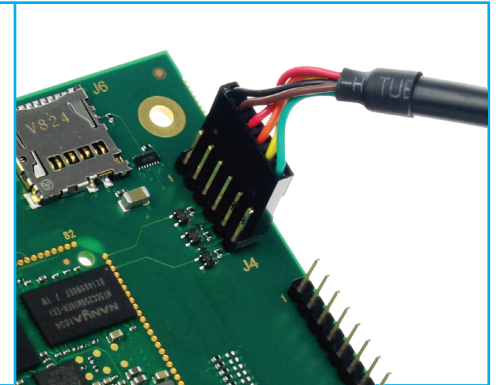
4. DIP Switches

The 4-way DIP switch SW1 on the emSBC-Argon kit is used to configure the boot mode. In the delivery state the equipped NOR-Flash is set as boot device by the following DIP-Switch setting:

Position	1	2	3	4
	Off	On	On	Don't care

5. Console, debugging

The Console interface of the bootloader and Linux is available on the right row of the dual row pin-header J4 of the emSBC-Argon. The pinout of the 6 pins in each row is pin compatible to the FTDI-USB-to-serial converter (Part Number: TTL-232R-3V3). The picture beside shows how the FTDI-cable needs to be connected. Pin1 of the FTDI-cable is marked by the black cable.



The settings for the terminal are 115200 baud, 8 data bits, 1 stop bit, no parity. Flow control is not used.

6. Push Buttons

By pressing the push button S2 a hardware reset of the CPU can be forced.

Links to further information

Software Manual

https://www.emtrion.de/de/details_products-accessoires/emSTAMP-Argon.html?file=files/content/emtrion/downloads/emtrion-emsvc-argon-manual-yocto_v002en.pdf

Hardware Manual

https://www.emtrion.de/de/details_products-accessoires/emsvc-argon-single-board-computer.html?file=files/content/emtrion/downloads/emSTAMP_emSBC_Argon_HW_v04en.pdf