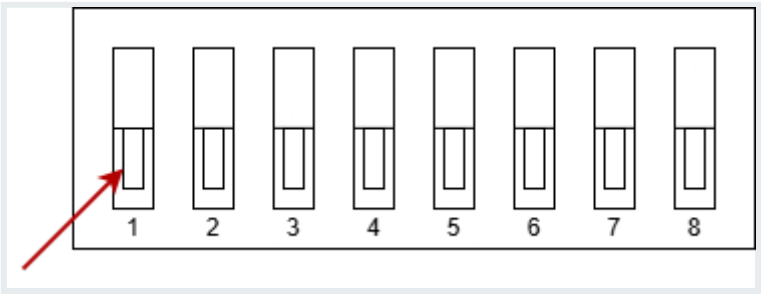
Booting

Tiger City IMX Industrial Computer with Linux OS

eMMC

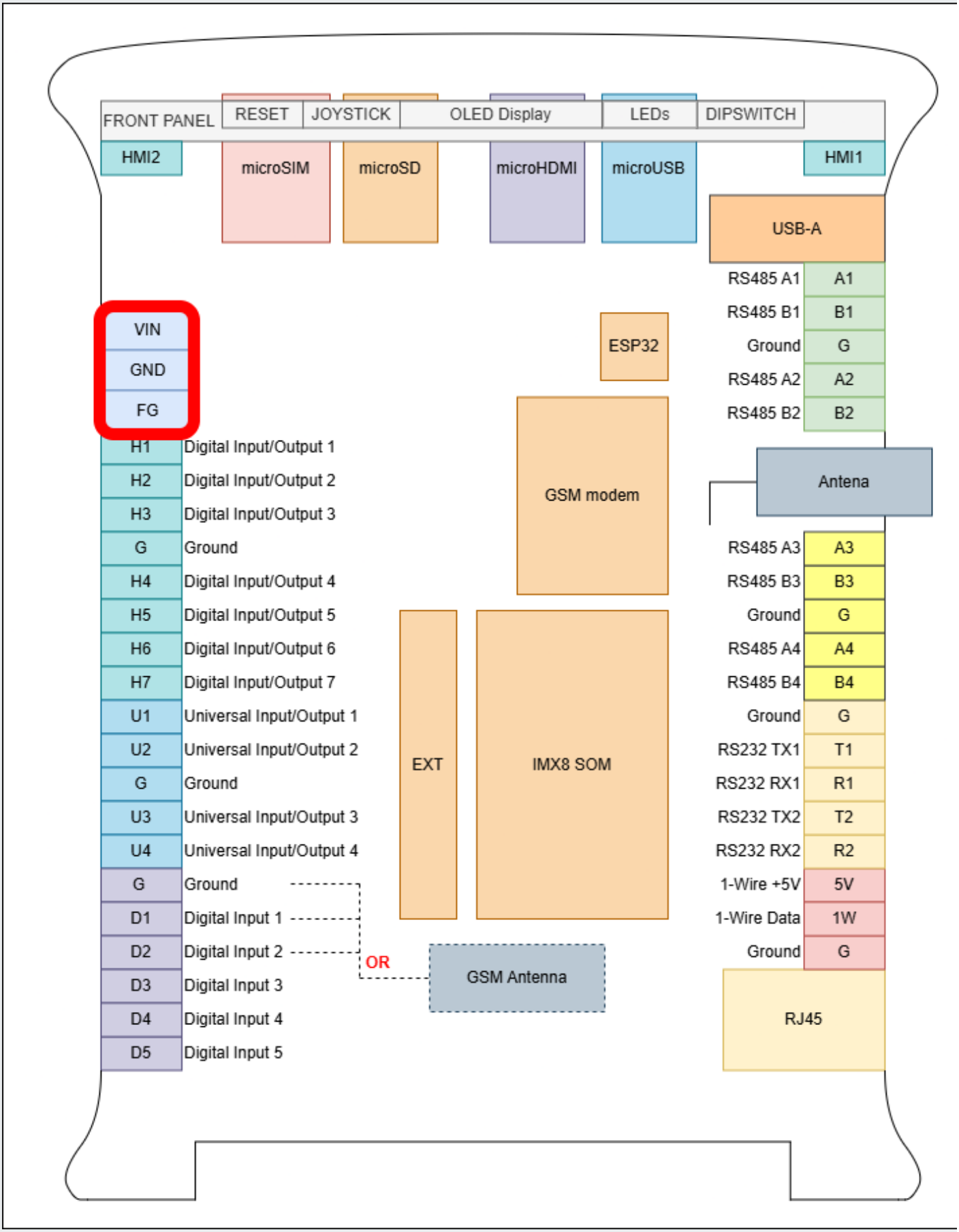
DIP switches positions

To boot from the eMMC the DIP switch No. 1 needs to be in the position shown in the picture below.



Power supply

Connect a power supply to the pins shown in the picture below. The suggested power supply is a DC voltage in the range of 12-24 V.



First boot

The connected power supply should initiate the first boot.

Console

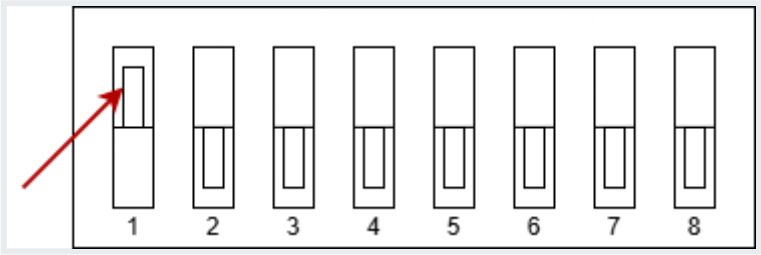
Booting logs are displayed in the console, indicating a proper boot from the eMMC, as shown in the picture below.

```
U-Boot SPL 2022.04-lf_v2022.04_var01+g49ec7c516a (Jan 22 2023 - 09:08:56 +0000)
SEC0:  RNG instantiated
Normal Boot
Trying to boot from MMC2


U-Boot 2022.04-lf_v2022.04_var01+g49ec7c516a (Jan 22 2023 - 09:08:56 +0000)

CPU:   i.MX8MMQ rev1.0 1600 MHz (running at 1200 MHz)
CPU:   Industrial temperature grade (-40C to 105C) at 27C
Reset cause: POR
Model: Variscite VAR-SOM-MX8M-MINI
DRAM:  2 GiB
Core:  73 devices, 23 uclasses, devicetree: separate
MMC:   FSL_SDHC: 1, FSL_SDHC: 2
Loading Environment from MMC... *** Warning - bad CRC, using default environment

In:    serial
Out:   serial
Err:   serial
extcon_ptn5150_init: Can't find device id=0x3d
extcon_ptn5150_setup: port init failed, err=-19

Part number: VSM-MX8MM-503
Assembly: AS204202761
Production date: 2023 May 03
Serial Number: f8:dc:7a:b1:30:66
switch to partitions #0, OK
mmc2(part 0) is current device
flash target is MMC:2
Net:   ADIN1300 PHY detected at addr 4
eth0: ethernet@30be0000
Fastboot: Normal
Normal Boot
Hit any key to stop autoboot:  0
Running BSP bootcmd ...
switch to partitions #0, OK
mmc2(part 0) is current device
Failed to load '/boot/boot.scr'
12823825 bytes read in 42 ms (291.2 MiB/s)
Uncompressed size: 30863872 = 0x1D6F200
Booting from mmc ...
fdt_file=imx8mm-var-som-tiger.dtb
45690 bytes read in 4 ms (10.9 MiB/s)
Moving Image from 0x40480000 to 0x40600000, end=42410000
## Flattened Device Tree blob at 43000000
   Booting using the fdt blob at 0x43000000
   Using Device Tree in place at 0000000043000000, end 000000004300e279

Starting kernel ...
```

SD card

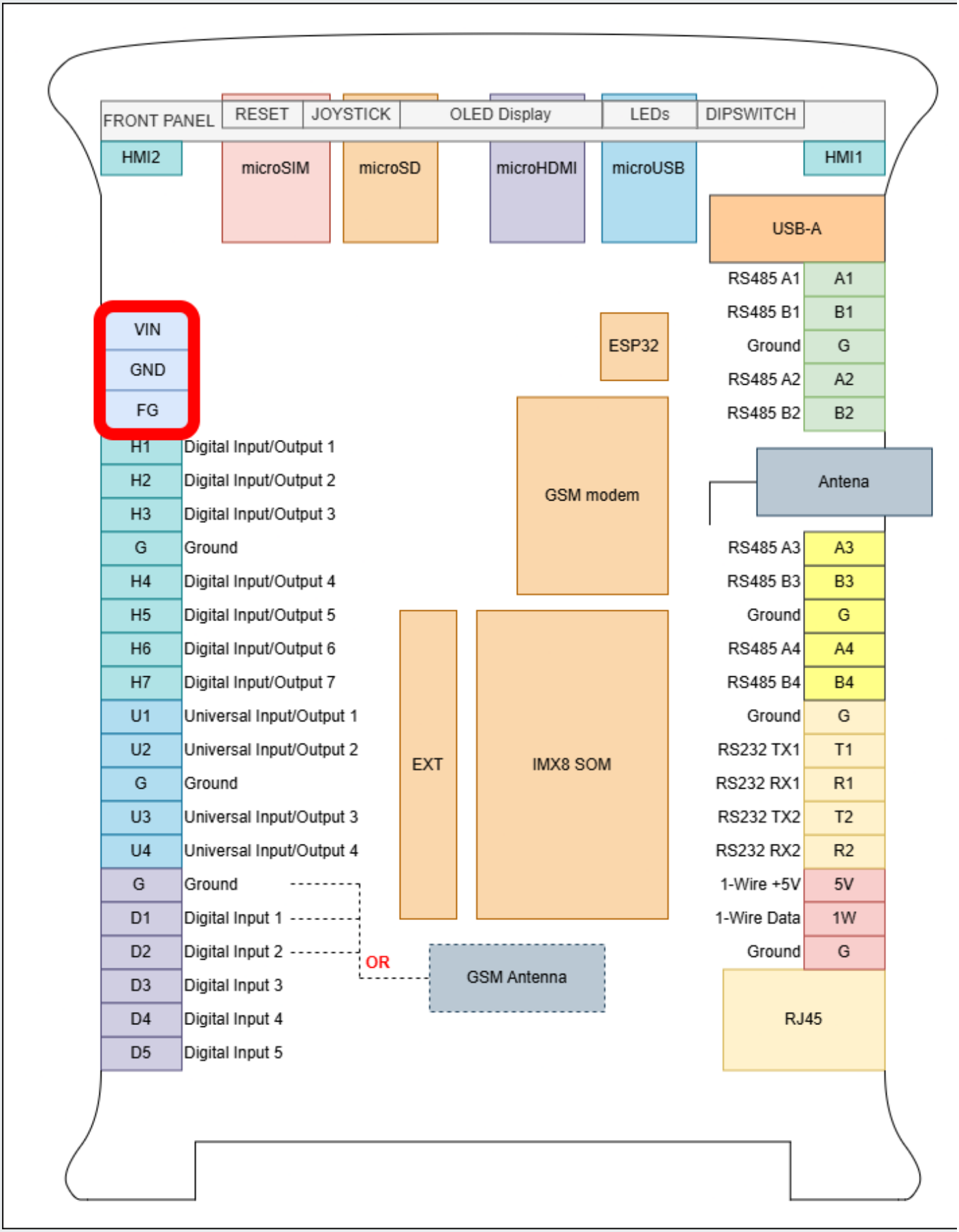
DIP switches positions

To boot from the SD card the DIP switch No. 1 needs to be in the position shown in the picture below.



Power supply

Connect a power supply to the pins shown in the picture below. The suggested power supply is a DC voltage in the range of 12-24 V.



First boot

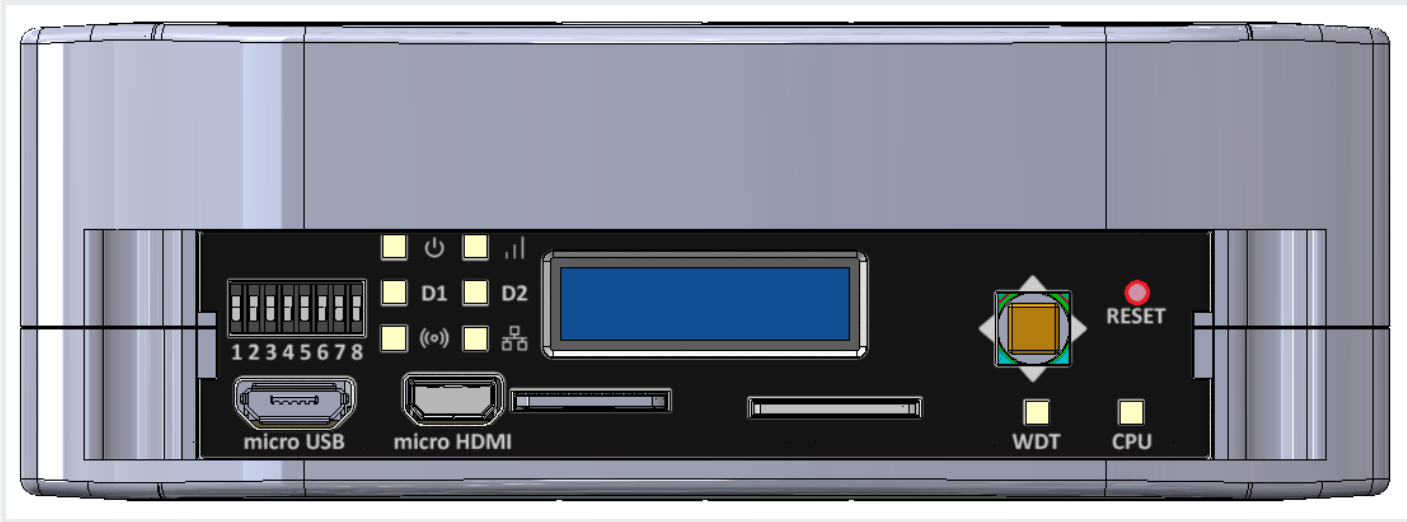
The connected power supply should initiate the first boot.

Console

Booting logs are displayed in the console.

Booting after the power-off command

If the device is turned off by inputting the power-off command in the terminal, the previous boot methods have to be initiated via the reset button placed on the front panel. Its placement is shown in the picture below.



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