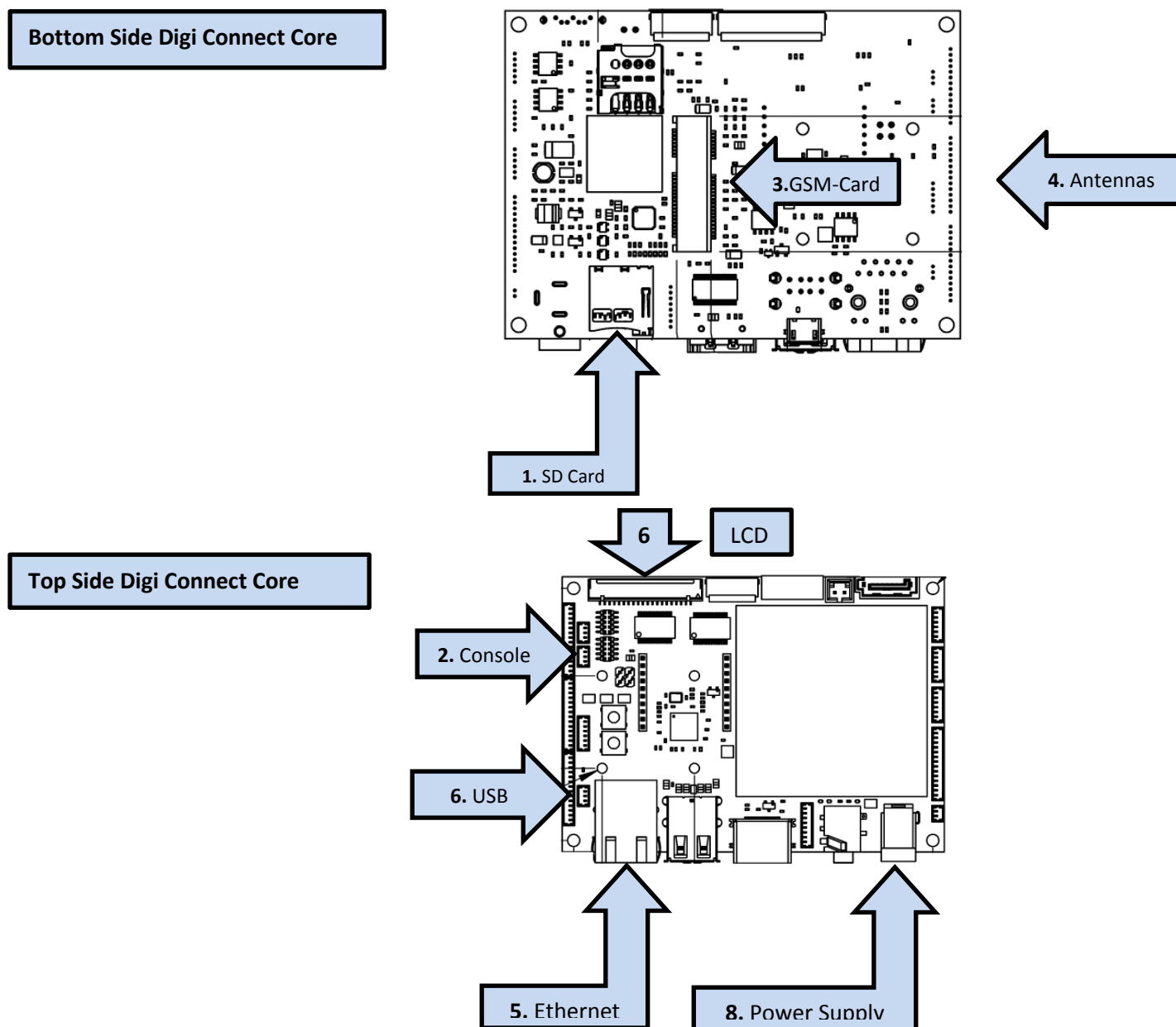


Atlantik Elektronik IoT Development Kit Getting started guide for CC6:



1. Install the firmware from our side on the SD Card, insert the SD Card.
2. Connect the USB Console cable with your PC.
3. Connect the Quectel GSM Mini-PCie Card
4. Connect the Antenova MITIS LTE antennas on the Quectel GSM Module (left and right).
5. Connect an ethernet cable (Important for the installation without SD Card).
6. Connect the USB connector from the LCD panel, Connect the LCD panel.
7. Connect the power supply to the power barrel connector.

Update firmware from microSD

Image Link → <http://www.atlantikelektronik.de/de/atlantik-elektronik-connectivity-kit> →

Documents → **Development_Kit_Image**

▪ To program Yocto from the microSD card: Place the Yocto firmware images in the root of the FAT formatted microSD card:

1. dey-image-qt-x11-ccimx6ulsbc.boot.ubifs
2. dey-image-qt-x11-ccimx6ulsbc.ubifs

▪ After building the Yocto firmware, you can find the image files inside the project directory at:

<project>/tmp/deploy/images/ccimx6ulsbc

▪ Connect the board to your host computer. (Side 1)

▪ Open a serial connection to the serial port the device is connected to. Use the following settings:

- **Port:** Serial port where the device is attached
- **Baud rate:** 115200
- **Data Bits:** 8
- **Parity:** None
- **Stop Bits:** 1
- **Flow control:** None

▪ Reset the device (press the Reset button on the board) and immediately press a key in the serial terminal to stop the auto-boot process.

• **Configure the partition table of eMMC to hold Yocto images.**

```
=> setenv mmcdev 0
```

```
=> run partition_mmc_linux
```

• **Update the boot image (extension .boot.ubifs) by executing this command**

```
=> update linux mmc 1 fat dey-image-qt-x11-ccimx6ulsbc.boot.vfat
```

• **Wait until the process ends, then update the root file system image by issuing this command :**

```
=> update rootfs mmc 1 fat dey-image-qt-x11-ccimx6ulsbc.ext4
```

• **To enable the video port:**

```
=> setenv extra_bootargs video=mxcfb0:dev=lfb,bpp=24,if=RGB666
```

```
video=mxcfb1:off video=mxcfb2:off video=mxcfb3:off
```

```
=> saveenv
```

```
=> boot (password root)
```

More information's on our website. "<http://www.atlantikelektronik.de/de/atlantik-elektronik-connectivity-kit> → **Documents**"

Update firmware from TFTP

"<http://www.atlantikelektronik.de/de/atlantik-elektronik-connectivity-kit> → Documents"

Configure your cellular interface

from console: Password: root (no user name)

1. root@ccimx6ulsbc:~# nmcli con edit cellular

2. nmcli> set gsm.apn <apn_name>

3. nmcli> set gsm.pin 1234

4. nmcli> save

4. nmcli> quit

5. root@ccimx6ulsbc:~# nmcli con up cellular

6. Test: root@ccimx6ulsbc:~# ping -I wlan0 8.8.8.8

LVDS Brightness

To set the brightness of LVDS0 interface on ConnectCore 6 SBC to the maximum brightness:

- root@ccimx6ulsbc:~# echo 0 > /sys/class/leds/lvds0-backlight/ brightness