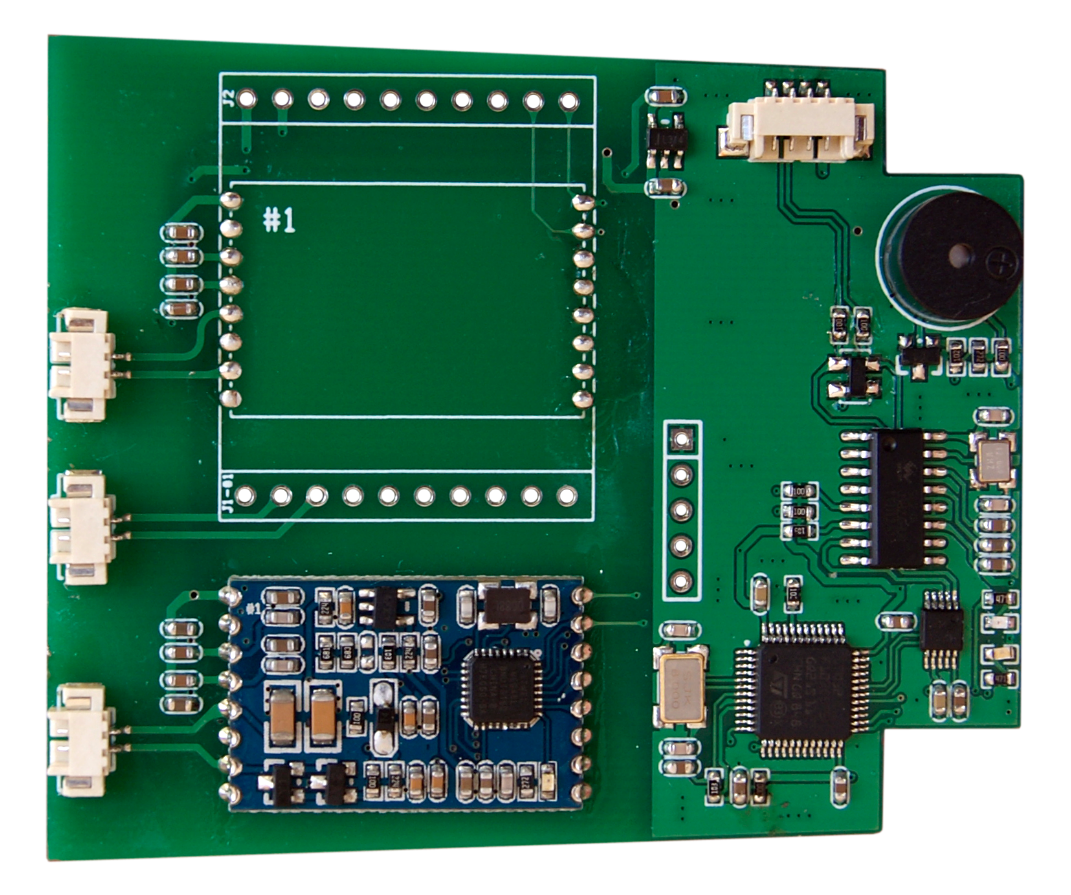
Mainboard Connections



**Antenna Connector Legic**

**FW Download (SWD)**

**Antenna Connector LF**

**Antenna Connector HF**

**USB Connector**

## Pinout of USB Interface

|  |  |  |
| --- | --- | --- |
| Pin | USB Name | Wire Colour |
| 1 (leftmost on photo) | Data– | White |
| 2 | Data+ | Green |
| 3 | GND | Black |
| 4 | +5 Vdc | Red |

## Firmware Download (SWD)

With the mainboard firmware version 2022-09-13, the firmware can be uploaded via USB using the HID configuration software. So the direct access to the SWD interface is only needed for older mainboard firmware versions or as emergency access, when the USB is no longer active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Through Hole | µC Pin | Designation | µC Function | JTAG Function |
| 1 (rectangular) |  | GND | GND | GND |
| 2 | 9 | VDDA | PWR | Voltage Detect |
| 3 | 7 | NRST | Reset | RST |
| 4 | 37, 38, 39 | PA14, PA15, PB3 | JTCK/SWCLK, JTDI, JTDO | CLK |
| 5 | 34 | PA13 | JTMS/SWDIO | DIO |

µC Type: STM32F103C8T6