

DK quick start guide

Unboxing the DK



Refer to the latest datasheet to check what is included. As an example, the owa450 DK (Sept. 23) contains the following items:

- owa4X/owa5X or owa450 to Dev Kit connection cable
- owa4x/owa5X Development kit board
- LTE Antennas
- GNSS Antenna
- Speaker (only owa450)
- Microphone (only owa450)
- AC/DC Power Supply 230Vac-12Vdc-2A.¹
- USB to RS232 DB9 Serial Adapter Cable.

You must have at least one of the following owa units:



owa4X

owa450



owa5X

Connect Owa to the DK

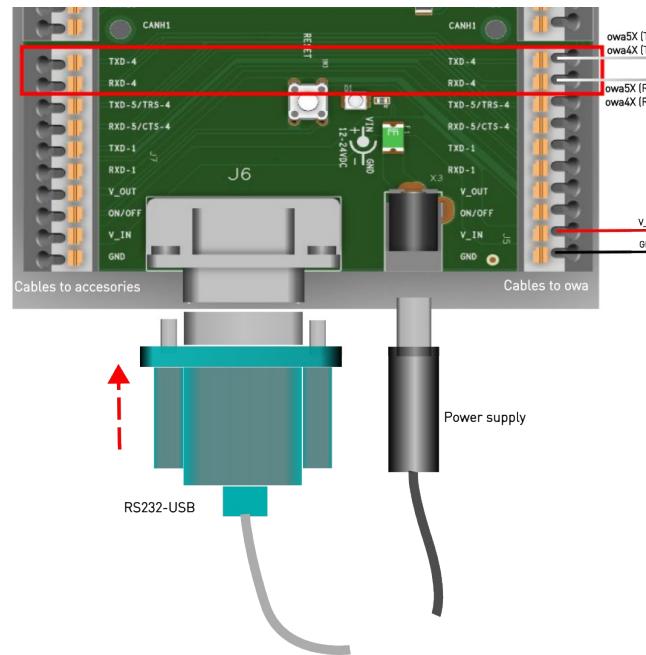
1. Prepare the DK connection cable. The DK connection cables are labelled:

2. Connect the cables:

Cable color / label	DK id
Red	→ V_IN
Black	→ GND
TXD4 owa4X / owa450	→ TXD4 / TXD1
RXD4	→ RXD4 / RXD1
	→ TXD4 / TXD1
owa5X	→ RXD4 / RXD1

3. Connect the USB-RS232 DB9, to the DK and to the PC

4. Plug the power supply jack



PC. Configure serial connection

1. Install software to communicate with the owa via serial:

Linux: Install minicom (`apt install minicom`)

Mac: Install minicom (`brew install minicom`)

Windows: Install Hyperterminal, putty or TeraTerm

2. Configure the serial port, with the following settings. You must choose the correct port

Baudrate	115200
Parity	None
Data bit	8
Stop bit	1
HW Flow Control	No
SW Flow Control	No

3. Power the unit (power supply)

4. Communicate with the device:

```
Saving Environment to NAND... Erasing redundant NAND...
Erasing at 0x440000 -- 100% complete.
Writing to redundant NAND... OK
OK
Press SPACE to abort autoboot in 0 seconds
Looking for boot scripts...
resetting USB...
USB0: Port not available.
USB1: Port not available.
-----
Booting process managed by RAUC script...
-----
Found valid slot MAIN in NAND file-system , 3 attempts remaining
Saving Environment to NAND... Erasing NAND...
Erasing at 0x3c0000 -- 100% complete.
Writing to NAND... OK
OK
Extracting kernel from kernel main partition ...
NAND read: device 0 offset 0x200000, size 0x80000
524288 bytes read: OK

NAND read: device 0 offset 0x480000, size 0x480000
```

5. Login with defaults credentials and play with Linux:

user	root	debian
password	root	temppwd
Super - user		user

¹ Do not change the power supply to avoid non-requested resets