

owa4X DEVELOPMENT KIT CONTENT

This development kit contains the following items:

- owa4X to Dev Kit connection cable (35 ways).
- owa4X Development kit board.
- LTE & GNSS Fakra Antenna
- Speaker.
- Microphone.
- AC/DC Power Supply 230Vac-12Vdc-2A.
- USB to RS232 DB9 Serial Adapter Cable.

First before starting, please request your credentials in www.owasys.com/en/developers. You will be supplied with a user and a password so as you can access the Developers Zone Web. There you will find the following information and software:

- Cross compiler.
- owa4X Integrators Manuals (PDF).
- owa4X Programming Reference Manuals (html).
- owa4X Programming Guide (PDF).
- Application notes.
- Latest owa4Xowa firmware.

Note that the kit does not include the owa4X units. These must be ordered separately.



To start using the development kit, please refer to section 3 of owa4X Integrators. The owa4X Integrators Manuals contains safety and other precautions section prior to handling the product. For further safety concerns contact **Owasys** at customer_support@owasys.com.

READ THIS INFORMATION BEFORE STARTING

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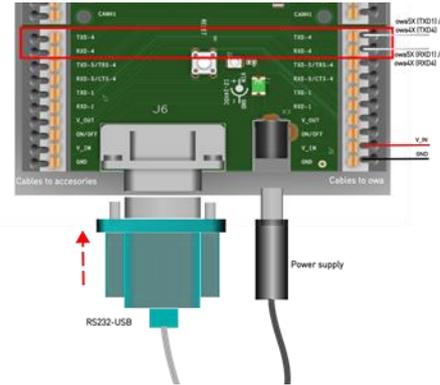
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Connect owa Unit to DK

1. Prepare the DK connection cable. The DK connection cables are labelled.
2. Connect the cables.

3. Connect the USB-RS232 DB9, to the DK and to the PC.
4. Plug the power supply jack.

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



Configure serial connection to PC

1. Install software to communicate with the owa Unit 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

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1: owzppi@owzppi: ~/Documents/Distro/owa4x/odm-builder-4x/user_fs
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 default credentials and play with Linux:

user	root	debian
password	root	tempwd
	Super-user	user