

MOD-USB3G



FEATURES

- SIMcard holder
- microSD card included
- HSUPA/HSDPA/WCDMA-850-1900-2100Mhz
- GSM/GPRS/EDGE 850-900-1800-1900Mhz
- based on Qualcomm MSM6280 chip
- HSUPADP 7.2Mbps Up 5.76Mbps
- HSDPA DP 7.2Mbps UP: 384kbps
- EDGE: DP 236.8kbps
- supports voice calls and SMS
- USB
- supported in the official A13/A10S/A10/A20 Debian and Android images
- size: 88x26x12mm
- MOD-USB3G would also work with your laptop and desktop computer the drivers are located inside the unit.
- Note that due to impulse current surges (up to 2A) you might be unable to use MOD-USB3G with
 other Olimex boards out-of-the-box. You would either need to make hardware adjustements or
 purchase additional adapter called USB-CAP. For more information refer to the notice in the FAQ
 section at the bottom of the page.

FAQ

- Is MOD-USB3G supported in the official Debian and Android images for your OLinuXino and SOM boards?
- Yes. The modem has full software support in the official Android and Debian releases.
- What is the default software procedure to run the modem under your Debian and Android releases?
- First you have to place a SIM card (without pin code) in the module. Then connect it to USB host connector. Then edit the settings in /etc/wvdial.conf file according to your mobile operator and type: # wvdial 3gconnect There is a lot of information available online on the 3G modem setting up.
- I can't see any drivers for download. How to connect the MOD-USB3G modem to a PC?
- There are Windows drivers and an application inside the MOD-USB3G. When you plug it to your Windows machine the modem would get recognized as a new storage device. Navigate to this storage device and install the application that you would find inside.
- It seems that the MOD-USB3G doesn't work very reliably with my OLinuXino board. Since I started using it, my whole setup experiences strange behavior (restarts and power-downs). What might be the problem?
- 3G modems in general draw a lot of impulse current during certain events. We have measured up to 2A spikes (and the standard 2.x USB provides up to 0.5A; the USB port in most of our OLinuXino and SOM boards provides up to 1A, by default). This makes the usage of all 3G modules unreliable with most embedded systems. However, there are hardware workarounds which might be applied.

There are three major solutions, however, two of them require hardware modifications of the board. All solutions should be applied while the board is powered off and not operational. It is recommended to refer to the schematics and board files before attempting the hardware modifications. You might find the proposed solutions below:

- 1. Adding a capacitor to the USB would lead to a discharge of the impulse currents. The capacitor should be placed between pins 1 and 4 of the USB connector. Usually, such a capacitor might be soldered via additional wires at the bottom of the board (the pins are easier to access at that point). The value of the capacitor should be between 1000uF and 2200uF. It has to be LOW ESR capacitor.
- 2. Changing the current protection of the USB controller. This solution would require you
- 3. We sell a separate adapter board that implements solution number 1 the board is called USB-CAP. It has capacitors between USB pin 1 and 4. This is the easiest way to be able to use devices that require high impulse currents.
- How to send AT commands to the 3G modem?
- You can send commands via the serial interface named "USB Modem Application Interface (COMX)". The
 settings for serial communication are the typical: 115200 baud, 8 data bits, 1 stop bit, no parity, XON/XOFF
 flow control. There is an AT command reference document in the "DOCUMENTS" section.