Get Started with Overo Computer-on-Module

**Overo COM**

**HDMI/DVI**

**POWER**

**USB**

**USB**

**AUDIO**

**IN/OUT**

**USB**

Overo Earth Expansion board

**Overo Earth and Water COMs**

**TI OMAP3503-based**

**Overo Fire and Air COMs**

**TI OMAP3530-based**

---

**Specs**

**Processor:**
- OMAP3530 or OMAP3503

**Speed:**
- 600MHz

**Memory on Board:**
- 256MB Flash
- 256MB DDR or 512MB DDR

**Dimensions:**
- 58mm x 17mm x 4.2mm

---

**Minimum System Requirements**

- Overo COM
- Expansion Board

Most configurations also require:
- Cable(s)
- Power supply

---

**Connecting an Expansion Board to an Overo COM**

**Expansion boards connect via the two 70-pin connectors**

**Align the 70-pin connectors board-to-board**

**And gently press until boards click into place**

---

**Start with a Console Session**

1. Connect a mini-B to standard A USB cable from USB console port to a USB port on your computer (green LED will illuminate). The computer will detect the connection and the COM will mount
   - Launch a terminal emulator such as kermit or Tera Term. Settings: 115200, 8n1

2. Plug 5V power supply into wall and expansion board LED will illuminate and Overo COM bootup will appear on the terminal session
   - Log in as root, (no password) and start exploring

---

**Adding Peripherals**

**Shut down and unplug before adding peripherals**

3. Connect 1024x768 60Hz display (Use an HDMI/DVI-D cable if necessary)

4. Add a keyboard and mouse through USB OTG port connected to a powered high speed USB hub

5. For custom bootup, insert a microSD card with a Linux kernel image and root file system

---

**Using a LCD Touchscreen**

To set the 'defaultdisplay' variable in U-Boot:

- Hit 'Enter' to interrupt the boot sequence
- Type `setenv defaultdisplay lcd43; saveenv;' (replace 'lcd43' as appropriate)
- enter reset, press the display’s reset or power button

---

**www.gumstix.net**

New to Gumstix visit: **www.gumstix.net/start**

Details on console sessions at: **www.gumstix.net/console**

Setup a build environment starting here: **www.gumstix.net/buildenvironment**

---

@www.gumstix.com