This board is handmade: except for the cost of components, every cent will be reinvested to improve the FabGL library, applications and to produce even better boards.

This board comes preprogrammed with the Ansi Terminal application. It can be used as TTL UART terminal or RS232 terminal.

You may need a NULL-Modem cable or adapter to use this board as classic computer terminal.

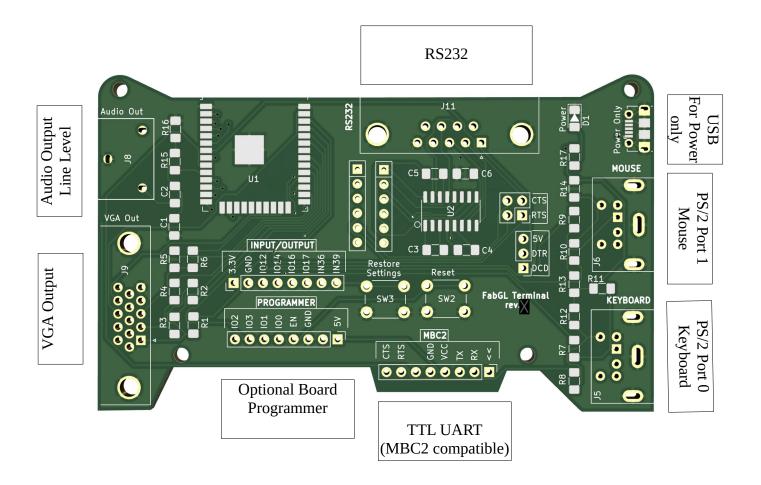
In case you need to reprogram the board (external programmer required) follow these steps:

- 1) Install the current upstream Arduino IDE at the 1.8 level or later. The current version is at the arduino.cc website.
- 2) Start Arduino and open the **Preferences** window.
- 3) Into Additional Board Manager URLs field enter:

"https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json"

- 4) Open Boards Manager from **Tools > Boards Manager...** menu and install **esp32** platform
- 5) From **Tools** menu select the board "**ESP32 Dev Module**". In the board menu, set following parameters:
 - Upload speed: 460800
 - Partition Scheme: **Huge App**
- 6) Open Tools > Manage Libraries menu and install fabgl library.
- 7) Restart Arduino IDE.
- 8) Open **File > Examples > FabGL** menu to select one of the FabGL examples.

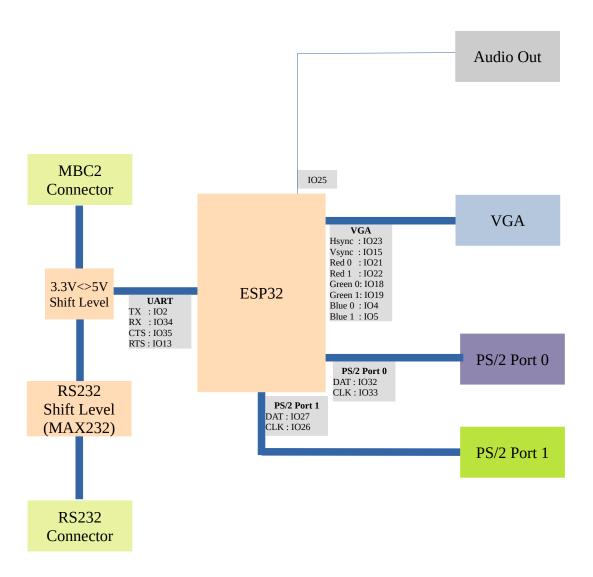
The Board



Notes:

- RS232 and TTL UART share the same communication channel, so just one at the time can be used
- to reset the Terminal settings, keep pressed "Restore Settings" while powering on the board
- USB on the board is just for Power, not for programming
- when a programmer board is inserted, disconnect any USB cable connected to the board
- RS232 implements following signals: TX, RX, CTS, RTS.
- DTR is directly connected to DCD. However it can be connected to 5V changing the related jumper.

Block Diagram and GPIO Assignments



References

- Library Source Code: https://github.com/fdivitto/FabGL
- Library Documentation: http://www.fabgl.com
- YouTube Channel: https://www.youtube.com/c/fdivitto/videos

