



VIZIC
TECHNOLOGIES

MINI
SMART GPU

Description Sheet

MINI SMART GPU: Intelligent Embedded Graphics Processor



Description:

The MINI SMART GPU-Intelligent Graphics Processor Unit is a powerful easy to use embedded development/professional board with a full color 160x128 pixels LCD. It offers a simple yet effective serial interface to any host micro-controller that can communicate via a serial port. All screen/graphic related functions are sent using a simple protocol via the serial interface; it also features basic Data logger functions. The MINI SMART GPU allows users to develop their application using their favorite micro-controller or

FPGA and software development tools. In short it offers one of the most flexible embedded graphics solutions available.

The MINI SMART GPU processor doesn't need any configuration or programming on itself, it's a slave device that only receives orders, reducing and facilitating dramatically the code size, complexity and processing load on your favorite main processor (8051, PIC, ATMEL, FREESCALE, STMICRO, ARM, CORTEX, any development platform (ARDUINO or similar, FPGA MBED, etc.) or PC(serialport)) of your application.

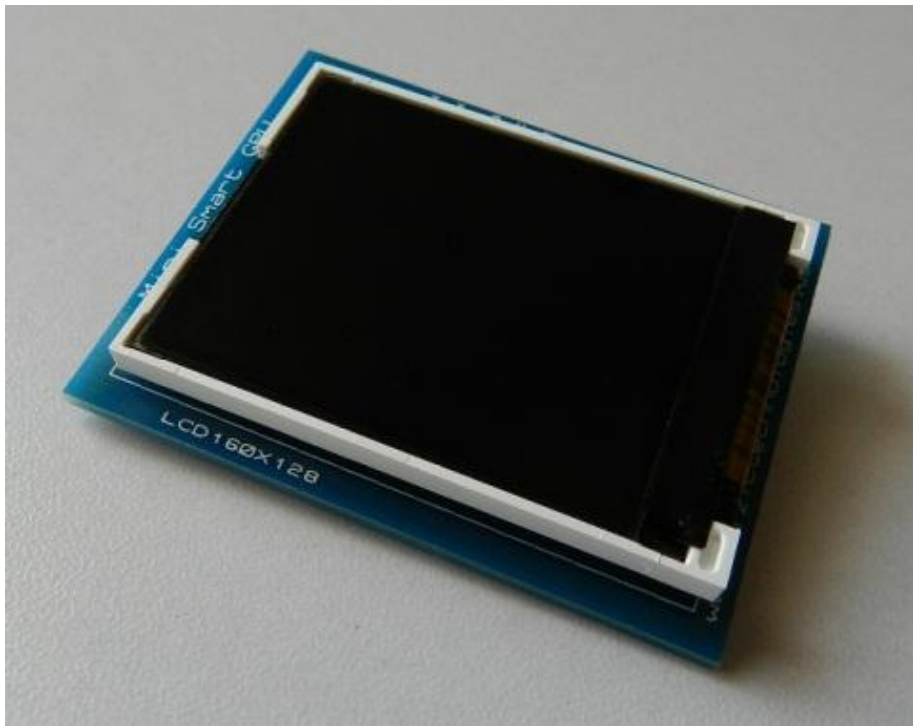
The main goal of the MINI SMART GPU it's to bring a very easy way to add colour, visual and touch human interfacing to any application or project, without the user having experience in handling LCDs and graphics algorithms. Although it's very easy to use, the MINI SMART GPU it's a low power/very high performance graphics processor, with a microSD card slot supporting up to 32 GB of storage, and FAT/FAT12/FAT16 or FAT32 universal file System that is compatible with any PC, no special format is needed

Features:

- 1.8“ LCD capable of displaying 262,144 colors.
- Easy 5 pin interface to any host device: **VCC, TX, RX, GND, RESET.**
- On-board uSD/uSDHC memory card adaptor compatible with FAT(windows PC), Support up to 32GB for storing images and text.
- Integrated File management/Data logger functions.
- PWM controlled display brightness.
- Sleep mode.
- Baud Rate speed up to 2000000 bps, 8 bits, no parity, 1 stop bit.
- 5V and 3V3 I/O compatible.
- 3V3 power supply.

MINI SMART GPU-EXPLAINED





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