XinaBox Datasheet IP01 - USB Programming Interface



Contents

- 1 Overview
- 2 Applications
- 3 Specifications
- 4 External Links

Overview

This xChip forms part of the interface programmer modules.

The FT232R is a USB to serial UART interface device which is equipped to power and program other modules via a USB A connector. The IP01 is required for programming the range of CPU Core xChip over the USB-serial bridge provided by the FT232R.

The IP01 is unable to program the CC03, whereaas the IP02 is able to do so.

Product Highlights

- Based on FT232R From FTDI Limited
- USB (https://en.wikipedia.org/wiki/USB) A connector for simple connectivity without the need of a cable
- Programming interface for core ⊠CHIPs such as CW01, CR01 and CC01
- Equipped with switches that allow the user to switch serial and programming configurations
- RGB LED for programming indicators

Applications

- Serial Programming of ⊠CHIPS
- Serial Interface for debugging
- Serial Data Monitoring
- USB-Serial Internet Link for IoT Devices

Specifications

- Single chip USB to asynchronous serial data transfer interface.
- Entire USB protocol handled on the chip. No USB specific firmware programming required.
- Fully integrated 1024 bit EEPROM for storing device descriptors.
- Data transfer rates from 300 baud to 3 Mbaud.
- 128 byte receive buffer and 256 byte transmit buffer utilizing buffer smoothing technology to allow for high data throughput.
- Unique USB FTDIChip-ID™ feature.
- Transmit and receive LED signals.
- UART interface support for 7 or 8 data bits, 1 or 2 stop bits and odd / even / mark / space / no parity.
- FIFO receives and transmits buffers for high data throughput.
- Device supplied pre-programmed with unique USB serial number.
- UART signal inversion option.
- Low operating and USB suspend current.
- Low USB bandwidth consumption.
- UHCI/OHCI/EHCI host controller compatible.
- USB 2.0 Full Speed compatible.
- -40°C to 85°C extended operating temperature range.

External Links

Datasheets

■ FT232 From FTDI Chip (http://www.ftdichip.com/Support/Documents/DataSheets/ICs/DS FT232R.pdf)

Shop

Buy IP01 (https://xinabox.cc/products/IP01)

GitHub

IP01 on GitHub (https://github.com/xinabox/IP01)

Drivers

■ FTDI Drivers (http://www.ftdichip.com/Drivers/VCP.htm)

IP01 - USB Programming Interface (FT232R)

