



Overview

The **GP-241xx** series devices are a set of high-speed bidirectional interfaces that can be used as **digital pattern generator, logic analyzer, SPI and I²C protocol master / analyzer**.

These **USB 2.0 devices** embed a specialized high-performance real-time processor that enables the generation of virtually any serial or parallel protocol that fits in 16 address/data lines and 6 control lines. During operation, the hardware accelerators reduce the control flow to a minimum to reserve the bandwidth for data transfer.

The **8PI Control Panel** host software graphical user interface (GUI) provides the user with a control over the USB device through specialized modes of operation. It offers intuitive access to the configuration of the hardware accelerators (clock ratio, pin mapping, accessed interface characteristics...). Moreover, all the applications offer a TCL scripting interface to automate tasks and build complex control sequences.

A **C/C++ software API** enables embedding the GP-241xx into user-defined application environment. Any programming language able to access a MS-Windows® DLL offers a true access to the whole system through simple function calls.

Applications

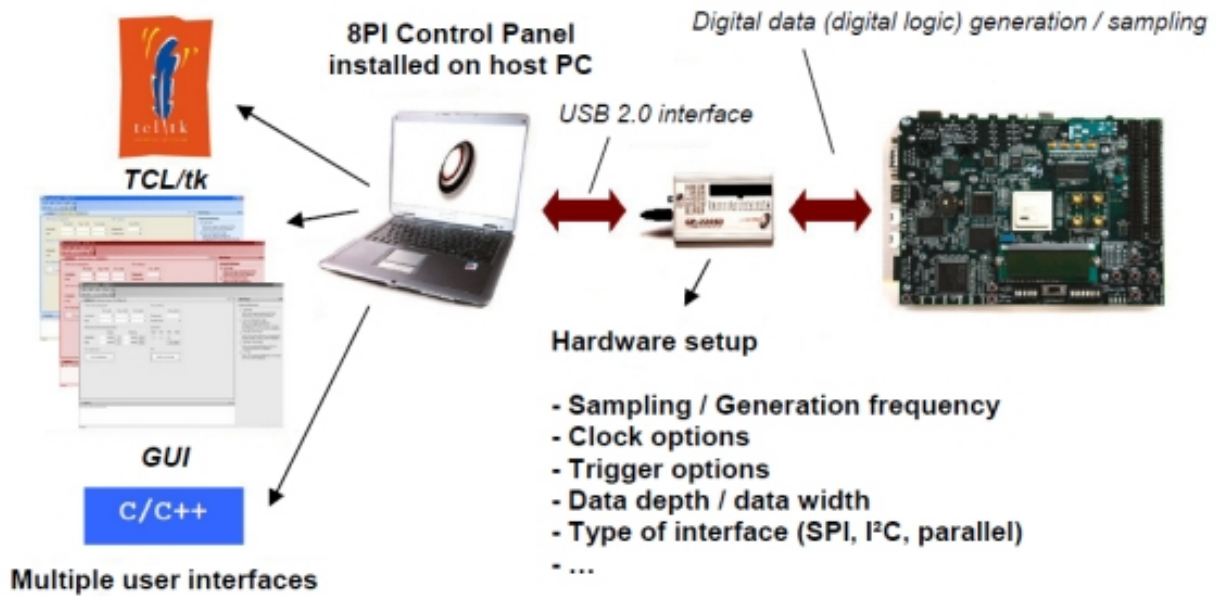
- ▶ Digital Pattern Generator / ADWG (Arbitrary Digital Waveform Generator);
- ▶ Logic Analyzer;
- ▶ SPI protocol master and analyzer;
- ▶ I²C protocol master and analyzer
- ▶ SRAM, flash interface;
- ▶ Bus emulation;
- ▶ Prototype debug, test and analysis;
- ▶ IP prototyping and evaluation;
- ▶ Recorder / player;
- ▶ ADC / DAC test and control.

Features

- ▶ USB interface:
 - USB 2.0 High speed 480 Mbit/s
 - Actual maximum sustained data rate: 11 MByte/s to 30 MByte/s
 - Mini-B USB receptacle connector
- ▶ User interface connector:
 - 34 leads dual row 2.54mm pitch (0.1 inch) standard header
 - 16 data signals
 - 6 control signals
 - 2 dedicated clock signals (in & out)
 - Internal or external reference clock
 - Internal memory buffer:
 - GP-24100 : 8 MB**
 - GP-24116 : 16 MB**
 - GP-24132 : 32 MB**
 - Frequency range: **800 Hz to 100 MHz**
 - Max. burst throughput: **200 MByte/s**
- ▶ USB-powered
- ▶ Up to **100 MByte** data depth per run
- ▶ Programmable I/O voltage from **1.8V to 3.3V**
- ▶ Anodized aluminium case
Dimensions: **WxLxH: 55x80x16 mm**
- ▶ 8PI Control Panel host software:
 - Operating system: Windows® XP, Windows® Vista, Windows® 7
 - 3 user interfaces for each mode of operation: GUI, TCL, API (C/C++)
 - Use C/C++ function calls to control the GP-24100 from VB, LabView® and more
 - 4 modes of operation included:
 - ADWG (Digital Pattern Generator)
 - Logic Analyzer
 - SPI Master/Analyzer
 - I²C Master/Analyzer.

GP-241xx Series

Fact sheet



GP-241xx package

The GP-241xx package contains:

- ▶ GP-241xx USB 2.0 device
- ▶ USB cable mini-B to USB type A (2m)
- ▶ 34 coloured flying lead wires
- ▶ License for ADWG, Analyzer, SPI and I²C modes of operation

Contact

For detailed information and pricing, contact:

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