Promira

TOTAL PHASE e-mail

I2C , SPI
I2C Active L1,L2 / SPI Active L1,L2
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Intelligent visibility into embedded systems

Promira™
Serial Platform

Key Features

USB/Ethernet to I2C/SPI Interface
- I2C speed up to 3.4 MHz
- SPI speed up to 80 MHz
- Single Dual and Quad I/O SPI
- Integrated level shifting
- Ethernet and high-speed USB interface
- Up to 16 GPIOs

Control Center Software
- Simplified transmission of I2C and SPI messages
- Automate tasks with XML-based batch scripts

Flash Center Software
- Extensible XML-based parts library with built-in support for EEPROMs and flash memories

Promira API
- Create custom software applications
- Configure and utilize GPIOs
- Configure Target Power via API
- Example files available
- Queue-based architecture
- Cross platform support for Windows, Linux, Mac OS X

Quality
- REACH, RoHS
- Manufacturing: ISO 9001, ISO 13485, AS9100C

Flexible and Extensible Platform*
- Multiple masters and slaves in a single unit
- I2C and SPI protocol analysis
- Additional Protocols: eSPI, I2S, etc.

*available as future releases

As the number of embedded applications grow and as their requirements increase in complexity, the need for more powerful and flexible embedded systems tools is more important than ever. The Promira Serial Platform can fill the gap and be used to design, debug and develop in a multi-faceted manner.

Built on a completely new FPGA-based architecture, the Promira platform is the latest tool in Total Phase's established line of cost-effective and easy-to-use embedded solutions. Instantly add new features to your device, as they become available: program and receive data with new protocols, higher clock rates and real-time protocol analysis. Each Promira platform comes with a full software suite including powerful GUIs and APIs for a variety of applications.

Every Promira platform comes standard with integrated level-shifting, as well as Ethernet and USB control interfaces. The Promira platform is ready to accomplish any task you set it to.

Production and Automated Testing
- Program firmware and other data in production environment
- Exercise DUTs and run regression tests
- Interface to production line using USB or Ethernet

Programming
- Burn firmware to EEPROMs
- Program in-system I2C- or SPI-based memory chip

Prototyping
- Master or slave emulation
- Use as master to interface with sensors, memory chips and other peripherals
- Use as slave to test commands sent from MCUs

Production Use Case
Use the Promira platform in a production line to program firmware onto EEPROMs using the API. The Ethernet interface can be used to extend the range beyond that of USB and interface multiple units to a PC.

Prototyping Use Case
Create working prototypes quickly and easily using the Promira platform. Used as a master, it can emulate an MCU to actively poll sensors, write and read from BIOS memory and control the bus. As a slave, it can be used to simulate sensors and test the validity of commands being sent by the master.

Promira™ Serial Platform

Applications

Memory Programming	Sensors	Industrial & Home Automation	Factory Automation
EEPROMs	Accelerometer	Motor control	Production programming
Flash	Pressure	Lighting control	Automated testing
	Temperature		
	Light		

Specifications

Software

Control Center Software Features

- Streamlined user interface for configuation of I2C, SPI and GPIOs at the click of a button
- I2C and SPI messages can be saved and loaded from binary files
- XML-based batch scripting for automating repetitive read and write commands with built-in help system
- Level Shifting: 0.9 – 3.45 V, 5 V

Flash Center Software

- Easily program, read, and write to I2C and SPI EEPROMs and flash memory
- Level Shifting: 0.9 – 3.45 V, 5 V

Promira API Support

- 32- and 64-bit support for C/C++/C#, Python, .NET
- Create custom applications using the flexible, powerful, and well-documented Promira API

Operating Systems Supported (32-bit and 64-bit)

- Windows: 7, 8, 8.1
- Linux: Red Hat, Ubuntu, Fedora, SuSE
- Mac OS X: 10.4 – 10.9

Control Center: I2C and SPI modules,
with integrated level-shifting

Hardware

Bit Rate

	Master	Slave
I2C	1 kHz – 3.4 MHz	1 kHz – 3.4 MHz
SPI	31 kHz – 80 MHz	31 kHz – 20 MHz

Target Bus Interface

- I2C Master/Slave
- SPI Master/Slave Single, Dual, Quad
- Up to 16 GPIO pins

Host Bus Interface

- USB 2.0 Micro B receptacle
- 10/100/1000 Ethernet receptacle

DC Characteristics

- Target Power: 5 V/3.3 V, 100 mA max
- I/O Power: 0.9 V – 3.45 V, 100 mA max
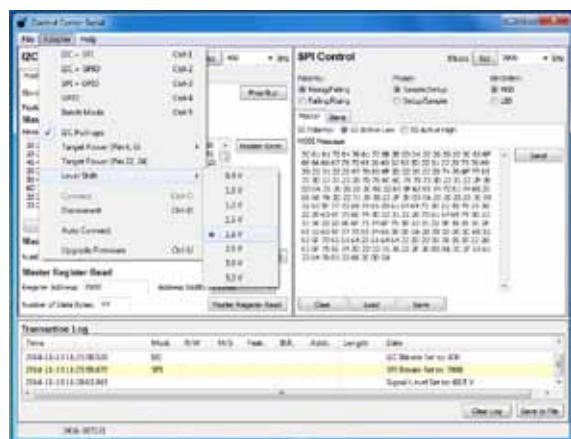- I2C/SPI/GPIO Signal: 0.9 V – 3.45 V, 10 mA max

Dimensions (w x d x l)

- 77.5 mm x 29.2 mm x 115.6 mm (3.05 in x 1.15 in x 4.55 in)

Weight

- 155 g (0.34 lbs)

Operating Temperature

- 10 ℃ – 35 ℃ (50 °F – 95 °F)

Learn more.

www.totalphase.com/promira

Ordering information

Promira Serial Platform	型番 Promira
Part Number	TP500110
Country of Origin	USA & Mexico
HTS	8543200000
ECCN	EAR99

TOTAL PHASE

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