

SoftPLC Micro Gateway

Good things DO come in small packages!

General Description

A SoftPLC Micro Gateway bridges devices between different networks. Physically small, but functionally huge, every Micro Gateway includes a comprehensive set of drivers, allowing users to configure a mix of up to 16 simultaneous drivers to meet their network bridging needs.

In addition to network bridging, Micro Gateways provide an intelligent platform that can be programmed for advanced functions such as data scaling or logging.

Micro Gateways also provide options for remote access, using SoftPLC's TagWell™ M2M Cloud platform.

SoftPLC Micro Gateways are configured with TOPDOC® NexGen. TOPDOC NexGen is available for Windows and Linux operating systems.



Micro Gateway Base unit - For open-board customer specified solutions (Cat No SPBB-x)



I/O Board (Cat No SPBB-6DI2SP1AI) provides (2) RS-232 and an SDI-12 interface for Micro Gateway models SPBB-x

Ethernet to Serial Gateways from just \$245!



Micro Gateway Assembly (Cat No SPBA1-x)

Some Supported Protocols

Serial Protocols:

- ASCII
- Modbus RTU/ASCII Master & Slave
- Enron Modbus Master
- DF1 Full & Half-Duplex
- SDI-12 Sensorbus

Ethernet Protocols:

- Modbus TCP/UDP Master & Slave
- A-B DF1 Ethernet
- Ethernet/IP Scanner & Adapter*

Others are available or can be added – please just ask!

Features

- ◆ Up to (16) different protocols can be supported simultaneously
- ◆ Hundreds of thousands of data points supported, extremely fast throughput
- ◆ Easy configuration and data mapping
- ◆ Diagnostics, real-time status monitoring
- ◆ Supports user logic for diagnostics, data manipulation, scaling, logging, etc.

Applications

- ◆ Protocol Converter - Communicate data between devices on different networks
- ◆ Data Concentrator - Send data from multiple devices and/or networks to higher level system
- ◆ Data Logger - Capture data from multiple systems into a single log file
- ◆ Remote Access Interface to plant/machine for alarm notification, monitoring, data collection or troubleshooting

* Under development



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HARDWARE SPECIFICATIONS	
Processor	1GHz ARM Cortex-A8
User Memory	512 MB DDR3 RAM
Storage	4GB on-board flash, MicroSD flash (optional)
USB Ports	(1) USB 2.0 Host, (1) Micro USB 2.0 client (for power & communication)
Ethernet	(1) 10/100MB port, RJ45 connector
Power	5VDC, power from barrel connector or via USB client device port
Power Requirement	210-460mA @ 5VDC
Included Cables	MicroUSB to USB
Dimensions	62 x 21 x 90 mm, 2.4" x 0.82" x 3.54" (with enclosure) 86.36 x 53.34 mm, 3.4" x 2.1" (board with no enclosure)

Micro Gateway Assembly (Cat No SPBBA1-x)

For Gateways requiring (1) serial and (1) Ethernet port, this single Catalog Number makes it easy to order your Micro Gateway. The SPBBA1-x includes:

- * Micro CPU Board (Cat No SPBB-x)
- * RS-232 Port (Cat No SPBB-232)
- * Metal Enclosure (Cat No SPBB-ENCL1)

For other port or protocol requirements, order individual components to customize your Micro Gateway.

Ordering Information

Order a Micro Gateway Assembly as Cat No SPBBA1-x or an open board version as Cat No SPBB-x. Replace the x with the appropriate capacity suffix from the table to the right. If ModbusTCP is not to be used, order the -LT version. Then order any desired hardware/firmware options by Catalog Number. Options will be factory installed/configured and the unit shipped as a customized assembly.

Gateway Capacity Options	
Cat # Suffix	ModbusTCP Servers
LT	2
1K	16
2K	32
8K	127

SoftPLC Micro Gateway Hardware/Firmware Options	
CAT NO	DESCRIPTION
SPBB-232	RS-232 Add-on Port
SPBB-6DI2SP1AI	I/O Board, (2) RS-232 ports, (1) SDI-12 interface, 12V power & battery monitoring circuit, (6) 5/12V Digital Inputs
SPBB-ENCL1	Metal enclosure for base unit and/or SPBB-232 only
ICO-232485	RS-232 to RS-485 converter
ICO-PSW105	10W Power Supply, 5VDC Out, AC in, wallwort style, barrel connector
ICOMDM-GSMU	3G Cellular Modem
SPZ-EML	Send Email Package
SPZ-SMS	Send/Receive SMS Text Message Package
SPZ-WEB	Embedded Web Server Package
SPZ-FW	Embedded Firewall/VPN Package
SPZ-MBM	High Performance Modbus Serial Master Driver