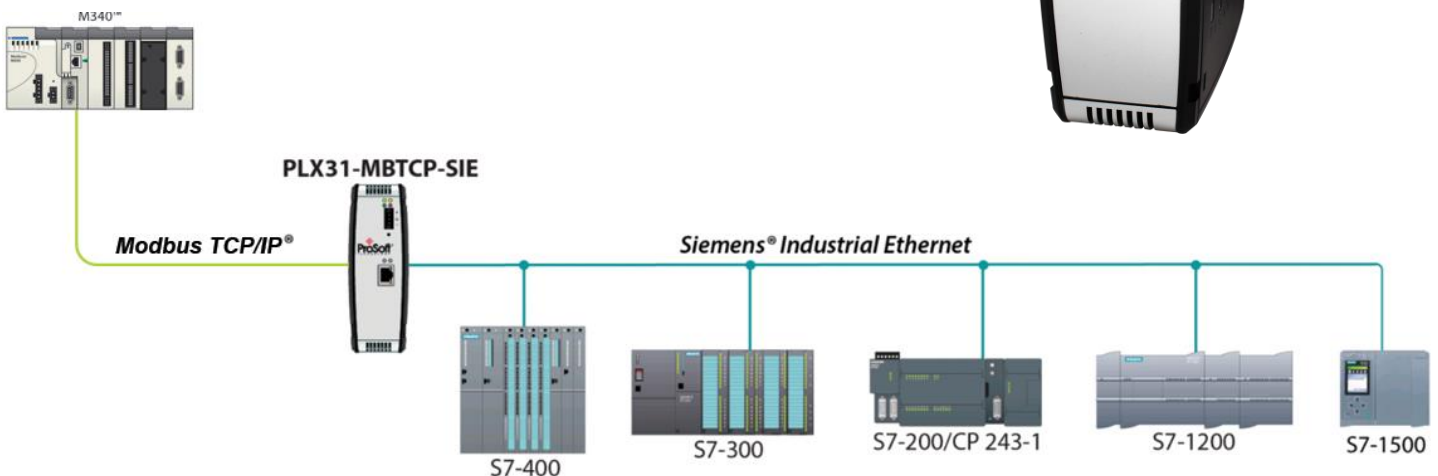# DATASHEET

Modbus® TCP/IP to Siemens® Industrial Ethernet Communication Gateway
PLX31-MBTCP-SIE

ProSoft Technology's Modbus® TCP/IP to Siemens Industrial Ethernet gateway allows high-speed bi-directional data transfers between Modbus® TCP/IP controllers and Siemens® S7-400, S7-300, S7-200, S7-1200, and S7-1500 PACs.

In addition, the gateway includes several features, including data prioritization, that allow for simplified integration, reduced commissioning time and optimized performance.

Features

♦ ProSoft Discovery Service utility allows your PC to see the gateway and edit its default IP address without being on the same subnet.

♦ Supports up to 20 simultaneous client & server connections, allowing for faster communication between devices such as HMIs, SCADA systems, power monitors and flow computers, among others.

♦ In addition to S7 controllers, the gateway can also be used with Siemens® S5 controllers with an appropriate interface.

♦ Gateway includes a SD card slot (SD card optional) for storing configuration files. This can be used for disaster recovery.

♦ Secure module configuration via module switch (v1.04 and greater).

♦ Up to 10,000 16-bit registers can be used to exchange large amounts of data.

Specifications

Modbus® TCP/IP Specifications

Specification	Description	
Supported Modbus Function Codes	1: Read Coil Status 2: Read Input Status 3: Read Holding Registers 4: Read Input Registers 5: Force (Write) Single Coil 6: Preset (Write) Single Holding Register	15: Force (Write) Multiple Coils 16: Preset (Write) Multiple Holding Registers 22: Mask Write Holding Register (Slave Only) 23: Read/Write Holding Registers (Slave Only)
Supported Clients	10	
Supported Servers	MBAP: 5 Encapsulated: 5	
Command List	Up to 160 fully configurable Client commands	
Status Data	Error codes reported individually for each command	
Command List Polling	Each command can be individually enabled or disabled; write-only-on-data-change is available	

Siemens® Industrial Ethernet Specifications

Specification	Description
Supported PLC Data Exchange (Read and Write)	Siemens S7-200, S7-300, S7-400, S7-1200, S7-1500
Supported Register Types	DB, Inputs, Outputs, Flags, Counters, Timers
Supported Clients	20

Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 10 to 36 VDC allowed Positive, Negative, GND Terminals
Current Load	24 VDC nominal @ 300 mA 10 to 36 VDC @ 610 mA maximum
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Shock	IEC 60068-2-27; 15G @ 11ms, 3-Axis (Operational) IEC 60068-2-27; 30G @ 18ms, 3-Axis (Non-Operational)
Vibration	IEC 60068-2-6; 5G @ 10 to 150 Hz
Relative Humidity	5% to 95% RH with no condensation
Dimensions (H x W x D)	5.38 x 1.99 x 4.38 in 13.67 x 5.05 x 11.13 cm
LED Indicators	Configuration (CFG), Error (ERR), Power (PWR), Hardware Fault (FLT), Network Status (NS), EtherNet/IP™ Class I or Class III Connection Status (EtherNet/IP Only) Module Status (MS), Module Configuration Status (EtherNet/IP Only) Ethernet Communication Port Link/Activity, and 100 mbit
Ethernet Port	10/100Mbit full- and half-duplex RJ45 Connector Electrical Isolation 1500 Vrms at 50 to 60 Hz for 60 seconds, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency is less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Shipped With Each Unit	2.5 mm screwdriver J180 Power Connector

Agency Approvals and Certifications

Please visit our website: www.prosoft-technology.com