

Our Modbus TCP/IP communication gateways offer bidirectional data transfers between devices on dissimilar networks. Our Modbus TCP/IP Driver uses Multiple Clients and Servers for faster data throughput. Protocol conversion gateways are the ideal solution for distributed networks when adding a remote rack becomes too costly.

The PLX30s are stand-alone DIN-rail mounted gateways that provide one Ethernet port for communication, remote configuration and diagnostics, and up to four (4) serial communication ports. The PLX30 gateways also come with an SD Card slot (SD card optional) for storing configuration files. In the event of a failure the SD card can be transferred to another gateway reducing downtime. These gateways contain a 4000 word database, includes a wide input power range (10 Vdc – 36 Vdc), and an extended temperature range (-25°C to 70°C). The PLX30 gateways include all the necessary cables required for communication.

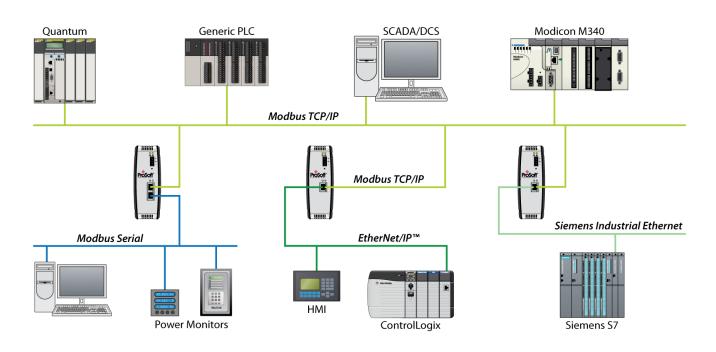
DATASHEET

PLX30

Modbus TCP/IP Communication Gateways



Connectivity Solution	ns
Modbus TCP/IP to EtherNet/IP®	PLX31-EIP-MBTCP
Modbus TCP/IP to Modbus Serial	PLX31-MBTCP-MBS
Modbus TCP/IP to Modbus Serial 4 Port	PLX31-MBTCP-MBS4
Modbus TCP/IP to Siemens Industrial Ethernet	PLX31-MBTCP-SIE



EtherNet/IP® Specifications				
Number of Class 3 Server Connections 5				
Supported PLC Types		PLC2, PL	PLC2, PLC5, SLC and ControlLogix	
Supported Message Typ	oes		PCCC and CIP	
Number of Class 3 Cli				
Connected		2		
Unconnected		1		
Number of Class 1 I/O	Connections			
PLX31-EIP-MBTCP		2		
I/O connection sizes		248/248		
Max RPI time		5ms per c	onnection	
CIP Services Supported		0x4C - CII	P Data Table Read	
			P Data Table Write	
Command List		each confi	or 100 commands per Client, igurable for command type, IP egister to/from addressing and	
Command Sets	and Sots		C-3/PLC5 Basic Command Set	
Command Gets		PLC5 Bina PLC5 ASC	ary Command Set CII Command Set Command Set	
Modbus TCP/IP Sp	ecifications			
Supported Modbus	1: Read Coil Stat	116	15: Force (Write) Multiple Coils	
Function Codes	2: Read Input Sta 3: Read Holding 4: Read Input Re 5: Force (Write) 6: Preset (Write) Holding Register	atus Registers gisters Single Coil Single	16: Preset (Write) Multiple Holding Registers 22: Mask Write Holding Register (Slave Only) 23: Read/Write Holding Registers (Slave Only)	
Supported Clients	10		registers (Glave Grily)	
Supported Servers				
MBAP	5			
Encapsulated	5			
Command List		onfigurable	Client commands	
Status Data			ually for each command	
Command List Polling	t Polling Each command can be individually enabled or disab write-only-on-data-change is available		idually enabled or disabled;	
Modbus Serial Specifications				
Command List	Up to 100 commands per Master port, configurable for Function Code, slave to/from addressing and word/bit count		ode, slave address, register d/bit count.	
Supported Modbus	1: Read Coil Sta	tus	15: Force (Write) Multiple Coils	
Function Codes	2: Read Input St		16: Preset (Write) Multiple	
	3: Read Holding		Holding Registers	
	4: Read Input Re		22: Mask Write Holding	
	5: Force (Write)		Register (Slave Only)	
	6: Preset (Write)		23: Read/Write Holding	
Software configurable	Holding Register Baud rate: 110 b		Registers (Slave Only)	
communication	Parity: None, Ev		z kups	
parameters	Data Size: 7 or 8			
parameters	Stop bits: 1 or 2	, Dito		
	RTS on/off delay	: 0 to 6553	5 milliseconds	
			(binary) with CRC-16	
	ASCII mode with			
			point data movement	
			rable support for Enron and	
	Daniel implemer	itations		
Polling of Command List	mmand Configurable polling of command list, including continuous and on change of data, and dynamically user or automatic			
Otatus D-t-	enabled.	lable -:	in dividual parameter of the first	
Status Data			individual command basis. In s maintained per active Modbus	
Node Address 1 to 247 (software selectable)				
RS Interface	RS232, RS422,			
	- , - ,			



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Siemens Industrial Ethernet Specifications

Siemens Industrial Ethernet Specifications				
Specification	Description OF and OF a			
Supported PLC	Siemens S7-200, Siemens S7-300, Siemens S7-400,			
Data Exchange (Read and Write)	Siemens S7-1200			
Supported Register	DB, Inputs, Outputs, Flags, Counters, Timers			
Types	DD, Inputs, Outputs, Flags, Counters, Filliers			
Supported Clients	20			
Hardware Speci	fications			
Specification	Description			
Power Supply	24 Vdc nominal			
11.7	10Vdc to 36 Vdc allowed			
	Positive, Negative, GND Terminals			
Current Load	24 Vdc @ 300mA nominal			
	10 to 36 Vdc @ 610mA 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)			
Relative Humidity	5% to 95% RH with no condensation			
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 @ 10Hz to 150Hz			
Dimensions	Standard: 5.38 in x 1.99 in x 4.38 in			
(Height x Width x Depth)	(13.67 cm x 5.05 cm x 11.13 cm)			
LED Indicators	Configuration (CFG) and Error (ERR) Communication Status			
	Power (PWR) and 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 100mbit Serial Communication Port Receive (RX) and Transmit (TX)			
Ethernet Port	10/100Mbit half-duplex RJ45 Connector Electrical Isolation			
Luicinot i oit	1500 Vrms at 50 Hz to 60 Hz for 60 seconds, applied as			
	specified in section 5.3.2 of IEC 60950: 1991			
	Ethernet Broadcast Storm Resiliency = less than or equal to			
	5000 [ARP] frames-per-second and less than or equal to 5			
0.115.7(0)	minutes duration			
Serial Port(S)	Note: The number of serial communication ports depends on the gateway type, and the combination of protocols.			
Serial Port Isolation	2500 Vrms port signal isolation per UL 1577			
	serial port communication signal uses RF(Radio Frequency)			
	modulation signal as isolation media, IC chip model is			
	SiliconLabs Si844x(Si8440,Si8441,Si8442).			
Shipped With Each Unit	2.5 mm screwdriver PLX30 DVD			
Offic	J180 Power Connector			
	(1 to 4) RJ45-DB9M Serial Adapter Cable (serial protocol only)			
	(1 to 4) DB9 to Screw Terminal Adapter (serial protocol only)			
	5' straight-through Ethernet cable (Grey)			
Agency Approva	als and Certifications			
CE Mark				
UL/cUL Class I Div II				
ATEX Zone 2				
CB Safety				
<u> </u>				



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

PLX30 Gateways

PLX31-EIP-MBTCP PLX31-MBTCP-MBS PLX31-MBTCP-MBS4 PLX31-MBTCP-SIE

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Specifications subject to change without notice.