

NeoPAC SoftPLC®

Applications

- ◆ PLC logic and I/O Control
- Protocol Converter (Gateway)
- Data Logging, Database Interface
- Remote Alarming
- "Headless" virtual HMI to browser

General Description

NeoPAC SoftPLC®'s are a family of open architecture Programmable Automation Controllers (PAC's) that provide scalable solutions for a wide range of applications. NeoPACs are priced to meet the needs of small I/O machine control applications, yet have more than enough power and capacity for large process control applications.

Every NeoPAC includes the functions and features of all SoftPLC controllers including:

- Deterministic, high speed program execution
- "Unlimited" user logic and data table memory
- Ladder logic and data table addressing similar to Allen-Bradley PLC-5/SLC-500
- Fully documented applications, all documentation resides in the controller
- ◆ SoftPLC TagWellTM IoT cloud interface
- Data logging to local/remote drives and databases
- Industry standard protocols for communications and I/O including ModbusTCP, Ethernet/IP™, DF1, Modbus RTU, and others
- Supports user functions written in C⁺⁺
- Compatible with all HMI/SCADA products
- Embedded HMI and web server options

NeoPAC's are programmed and maintained with TOPDOC® NexGen via Ethernet. TOPDOC NexGen is available for the Windows and Linux operating systems.



Hardware Features

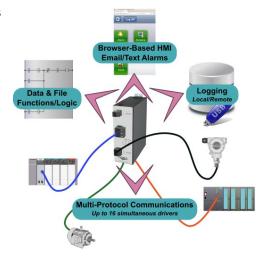
- Powerful CPU 64-bit quad-core ARM® processor
- Memory minimum 512MB RAM
- Storage 8GB on-board flash plus optional MicroSD flash
- (2) configurable communication ports
- GB Ethernet port
- (2) USB 2.0 host ports
- Embedded Wireless (option)
- Wide range 6-72V DC input power
- DIN-rail mount

Communication and I/O Ports

The NeoPAC can interface to devices from hundreds of vendors including I/O, instruments, drives, HMI/SCADA, and more.

A-B "BlueHose" Ports!

Up to 2 optional "bluehose" ports allow the NeoPAC to communicate on Allen-Bradley Data Highway Plus (DH+) or Remote I/O (RIO) networks.





SPECIFICATIONS					
Processor		64-bit quad-core ARM® processor			
User Memorv		Minimum 512 MB RAM. 8GB onboard eMMC flash			
Removable Memory		MicroSD (optional - no card included)			
Operating Temp		0~60°C, -20~70°C option (storage -40~85°C)			
Humiditv		0~95%. non-condensina			
Input Voltage Range		6~72 VDC via terminal block connector			
Power Requirements		2-5W based on options selected			
Communication Ports		(1) GB Ethernet port (10/100/1000) (2) independent USB 2.0 Host ports (1) MicroUSB serial console access (for troubleshooting)			
Option Ports (2)		A-B Bluehose, supports DH+ or RIO Scanner / Adapter RS-485, 2-wire, isolated Other (future) eg: RS-232, CAN			
Protocols	Serial	Modbus Master/Slave, DF1, ASCII			
	Ethernet	ModbusTCP, DF1 Ethernet (PCCC), Ethernet/IP™			
Remote I/O Interfaces		Ethernet, USB, serial option ports A-B RIO via SPO-BH option			
Dimensions (HxWxD)		3.945 x 1.349 x 3.823 in (100.2 x 34.26 x 97.1 mm)			
Packaging		Fanless/Diskless system, Metal enclosure, DIN-rail Mount			
Time		NTP Client, update via internet or NTP Server on local LAN			
Security		Embedded Gatecraft™ Firewall/VPN option SSH server for encrypted data transfer			
LED's		(2) System Status, (2) Option Port Status, (2) Ethernet			

ORDERING INFORMATION					
Part Number	Description				
SN2-A1-x *	NeoPAC SoftPLC				
SPO-BH	NeoPAC BlueHose Option Port				
SPO-485	NeoPAC RS-485 Option Port				
SPO-WIFIMOD	Wifi Antenna Extension				
SPO-EXTEMP	Expands operating temp				
SPZ-WEB	Embedded Web Server Option				
SPZ-EML	Send Email Option				
SSH-xL	Embedded HMI Options				

^{*} x is license size from table below

Runtime License Sizes							
Catalog Number Suffix	ModbusTCP Servers	Ethernet/IP Connection Bytes	Discrete Inputs / Logical A-B RIO Racks	Discrete Outputs / Logical A-B RIO Racks			
LT	2	64	128 / 1	128 / 1			
1K	16	256	up to 1024 / 8	up to 1024 / 8			
2K	32	1024	up to 2048 / 16	up to 2048 / 16			
8K	127	4096	up to 8192 / 64	up to 8192 / 64			