

# SoftPLC® NeoPAC

## Applications

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

## General Description

SoftPLC® NeoPAC'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 TagWell cloud interface
- ◆ Data logging to local/remote drives and databases
- ◆ Industry standard protocols ModbusTCP, Ethernet/IP™, DF1, Modbus RTU, and others for communications and I/O
- ◆ 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

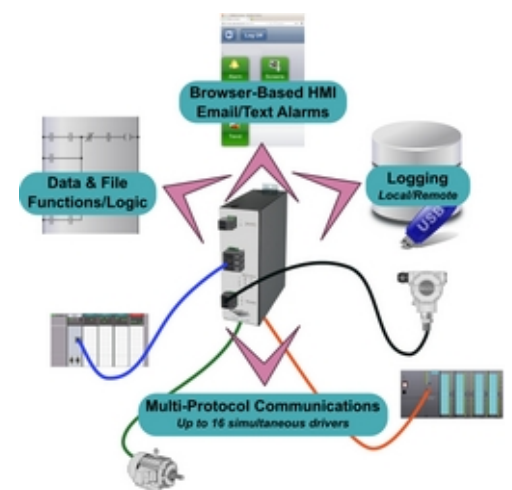
- Powerful CPU – 64-bit quad-core ARM® Cortex™ A53 MPCore™ processor
- Memory - 512MB DDR3 RAM
- Storage - 8GB on-board flash, MicroSD flash (*optional*)
- (2) USB host ports
- 10/100MB Ethernet port, RJ-45
- 24V DC power
- DIN-rail mount

## Communication and I/O Ports

The NeoPAC can interface to devices from hundreds of vendors including I/O, instruments, drives, HMI/SCADA, and more. Ethernet and Serial ports with user-configurable protocols are standard.

### A-B BlueHose Port!

An optional “bluehose” port allows the NeoPAC to communicate on Allen-Bradley Data Highway Plus (DH+) or Remote I/O (RIO) networks.

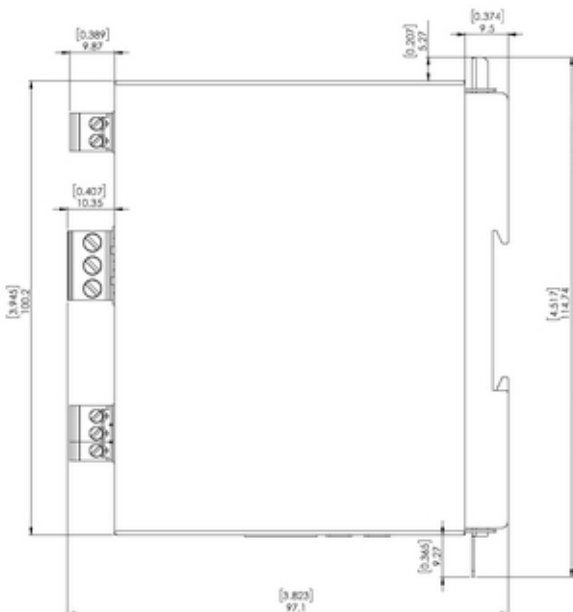


SPECIFICATIONS		
<b>Processor</b>	64-bit quad-core ARM® processor	
<b>User Memory</b>	512 MB RAM	
<b>Removable Memory</b>	MicroSD (optional - no card included)	
<b>Operating Temp</b>	0 to 60°C, -20 to 70°C option (storage -20 to 85°C)	
<b>Humidity</b>	0-95%, non-condensing	
<b>Input Voltage</b>	24 VDC via terminal block connector	
<b>Power Requirements</b>	2.5W, 3.7W w/ bluehose active	
<b>Communication Ports</b>	(1) RS-485 port (2 wire) (1) GB Ethernet port (10/100/1000) (2) independent USB 2.0 Host ports  Option (models SN1-BHx): (1) A-B Bluehose port, supports Data Highway Plus or Remote I/O Scanner / Adapter	
<b>Protocols</b>	<b>Serial</b>	Modbus Master/Slave, DF1, ASCII
	<b>Ethernet</b>	ModbusTCP, DF1 Ethernet, Ethernet/IP™
<b>Dimensions (HxWxD)</b>	3.945 x 1.349 x 3.823 in (100.2 x 34.26 x 97.1 mm)	
<b>Packaging</b>	Fanless/Diskless system, Metal enclosure, DIN-rail Mount	
<b>GPS Interface</b>	Embedded NTP Server	
<b>Security</b>	SSH server for encrypted data transfer	
<b>LED's</b>	(1) System Control, (2) Ethernet	

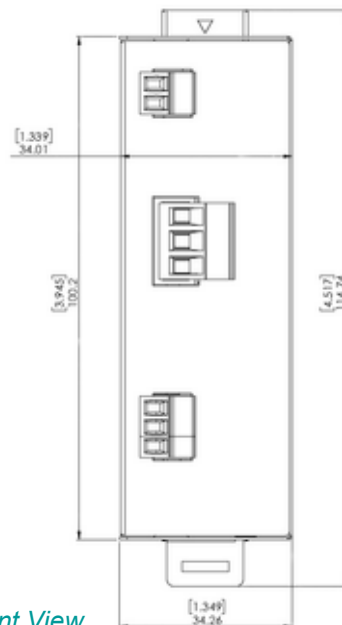
ORDERING INFORMATION	
Part Number	Description
SN1-A1-X	SoftPLC NeoPAC
SN1-BHA1-X	SoftPLC NeoPAC w/ BlueHose Port
SN-EXTEMP	Expands operating temperature to -20 ~ 70°C
SPZ-WEB	Embedded Web Server Option
SPZ-EML	Send Email Option
SSH-xL	Embedded HMI Options

\* X is license size from table below

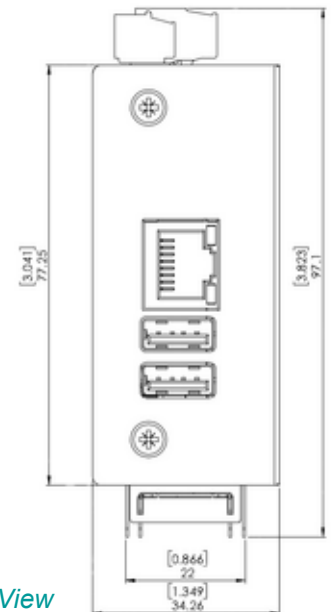
Runtime License Sizes				
Catalog Number Suffix	ModbusTCP Servers	Ethernet/IP Connection Bytes	Discrete Inputs / Logical A-B RIO Racks	Discrete Outputs / Logical A-B RIO Racks
LT	2	64	128	128
1K	16	256	up to 1024	up to 1024
2K	32	1024	up to 2048	up to 2048
8K	127	4096	up to 8192	up to 8192



SideView



Front View



Bottom View