

Hardbook SoftPLC™ Processor

Cat. No. HB1-HPLA-x

General Description

Hardbook SoftPLC's are open architecture controller CPU's that can connect to a wide variety of I/O and communication networks. Hardbook SoftPLC's are customized at the factory to application specific configurations and include hardware assembly, driver installation, system software configuration, and system level testing.

Hardbook SoftPLC models differ only in the discrete I/O capacity (see table). Analog or special purpose module I/O channels allowed are limited only by the selected hardware, not the SoftPLC. For Tealware I/O, allow for 16 discrete points for every 4 analog channels, input or output respectively based on the module type. For Allen-Bradley Remote I/O, allow for 16 discrete input points and 16 discrete output points per block transfer module.

Hardbook SoftPLC Features

Hardbook SoftPLC's include the rich set of functions provided by SoftPLC Control Software, including:

- ◆ Powerful Ladder Logic instruction set
- ◆ Loadable Instructions for specialized or user-written functions
- ◆ Unlimited user application memory for logic and data table
- ◆ All application documentation resides in the SoftPLC CPU
- ◆ Wide variety of I/O Drivers - ModbusTCP, Tealware™, Profibus, DeviceNet, A-B RIO, many others
- ◆ Communication Drivers - A-B Ethernet, DF1, Modbus serial, ModbusTCP/UDP, others



Front View



Rear View

- ◆ Compatible with all HMI/SCADA products
- ◆ Embedded Gatecraft™ Firewall technology
- ◆ Ladder logic/data table addressing similar to Allen-Bradley PLC-5/ SLC-500 with import/conversions available
- ◆ (2) Ethernet, (3) Serial, (6) USB communication ports
- ◆ Heavy Duty Metal Enclosure with mounting brackets
- ◆ Fanless operation
- ◆ Internal Compact Flash
- ◆ PCI Expansion slot for I/O or other interfaces
- ◆ Internal expansion slot for solid state/ hard disk

Available Models & I/O Capacities

Catalog Number	Discrete Inputs	Discrete Outputs
HB1-HPLA-1K	up to 1024	up to 1024
HB1-HPLA-2K	up to 2048	up to 2048
HB1-HPLA-8K	up to 8192	up to 8192

Hardbook SoftPLC Specifications

Hardbook HB1-HPLA-x Specifications	
System Hardware	
CPU	1.5GHz
Memory	512MB DDRAM, up to 2GB optional
Storage	128MB internal Industrial Compact Flash card, expandable to 8GB
Expansion/Options	PCI slot, internal 2.5" HDD optional
I/O Interfaces	
Ethernet	(2) 10/100MB ports, RJ45
Serial	(3) RS-232 ports, (1) RS-232/422/485 port, DB44 Connector (9 pin D-sub interface provided via included breakout cable)
USB	(6) USB 2.0 ports
Other	Parallel Port
Power Supply	
Type	External 120W AC Adapter included , (optional) Din Rail Mount Power Supply (ICO-PS2005)
Output Voltage	19VDC
Input	100-240VAC input, 50/60 Hz
Enclosure	
Construction	Heavy Duty Aluminum, Fanless
Mounting	Panel Mount Brackets included
Dimensions (LxWxH)	7.6 x 10.5 x 4.2 in 195 x 268 x 80 mm
Weight (approx.)	10 lbs 4.5 kg
Environmental	
Operating Temp	-5 ~ 55 °C 23 ~ 131 °F
Storage Temp	-20 ~ 80 °C -4 ~ 176 °F
Humidity	10 ~ 90%, non-condensing
Standards	CE/FCC/RoHS

Recommended Options	
ICO-PS12024	Din Rail Mount Power Supply, 120W, 24VDC
SPZ-WEB	SoftPLC Embedded Web Server
GCL-x	Gatecraft™ Link Industrial Ethernet Switch
ICO-PSC96-24	Uninterruptible Power Supply
ICO-SSx	Surge Suppression Equipment
TDNG-FN-x	TOPDOC NexGen Development/Maintenance Software

*HB1-HPLA-x Mounting Diagram
(Dimensions in mm)*

