

# Hardbook SoftPLC™ Processor

## Cat. No. HB2-HPLB-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



Rear View

- ◆ 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
- ◆ 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, (4) Serial, (4) USB communication ports
- ◆ Heavy Duty Metal Enclosure with mounting brackets
- ◆ Fanless operation
- ◆ Internal Compact Flash
- ◆ (2) PCI Expansion slots for I/O or other interfaces
- ◆ Expansion slot for internal solid state/ hard disk

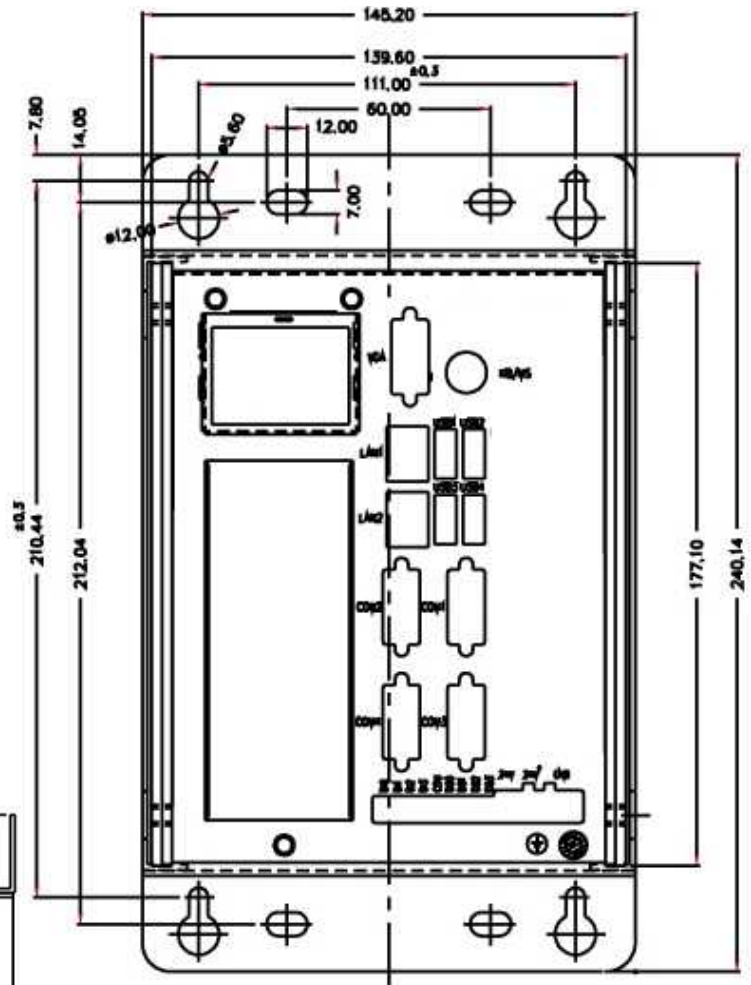
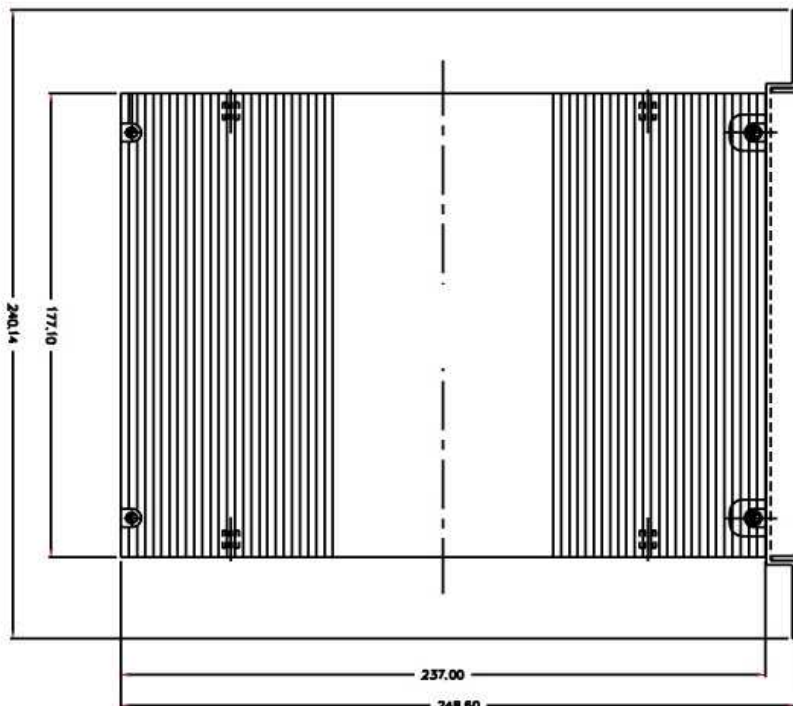
#### Available Models & I/O Capacities

Catalog Number	Discrete Inputs	Discrete Outputs
HB2-HPLB-1K	up to 1024	up to 1024
HB2-HPLB-2K	up to 2048	up to 2048
HB2-HPLB-8K	up to 8192	up to 8192

## Hardbook SoftPLC Specifications

Hardbook HB2-HPLB-x Specifications	
<b>System Hardware</b>	
<b>CPU</b>	1GHz
<b>Memory</b>	512MB RAM
<b>Storage</b>	128MB internal Industrial Compact Flash card, expandable to 8GB
<b>Expansion/Options</b>	(2) PCI slots, internal 2.5" HDD optional
<b>I/O Interfaces</b>	
<b>Ethernet</b>	(2) 10/100MB ports, RJ45
<b>Serial</b>	(2) RS-232 ports (2) RS-232/422/485 ports, 9 pin D-sub
<b>USB</b>	(4) USB 2.0 ports
<b>Other</b>	Fault/Status LED's Fault/Status LED's
<b>Power Supply</b>	
<b>Type</b>	Internal AC Adapter included
<b>Power Requirement</b>	72W (w/ no PCI cards)
<b>Input</b>	16-36VDC
<b>Enclosure</b>	
<b>Construction</b>	Heavy Duty Aluminum, Fanless
<b>Mounting</b>	Panel Mount Brackets included
<b>Dimensions (LxWxH)</b>	5.5 x 9.3 x 7.0 in    140 x 237 x 179 mm
<b>Weight (approx.)</b>	9.2 lbs    4.2 kg
<b>Environmental</b>	
<b>Operating Temp</b>	-20 ~ 55°C    -4 ~ 131°F
<b>Storage Temp</b>	-20 ~ 80°C    -4 ~ 176°F
<b>Humidity</b>	5 ~ 95%, non-condensing
<b>Standards</b>	CE/FCC/RoHS

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



HB2-HPLB-x Mounting Diagram  
(Dimensions in mm)