

# Mini Hardbook SoftPLC™ Processor

## Cat. No. HB-MOLEH-x, HB2-MILEH-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.

The HB-MOLEH-*x* and HB2-MILEH-*x* are designed to be safely operated in hazardous locations, such as those with flammable gases, combustible dust, or ignitable fibers, where there is a potential for fire and explosions. They are UL listed for Class 1 Division 2 Groups A, B, C, D T3A.

### SoftPLC Features

Mini 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, Modbus Serial, and many others

- Communication Drivers A-B Ethernet, DF1, Modbus serial, ModbusTCP/UDP, others
- Compatible with all HMI/SCADA products
- Embedded Gatecraft<sup>™</sup> Firewall technology
- Ladder logic/data table addressing similar to Allen-Bradley PLC-5/ SLC-500 with import/conversions available



### **Hardware Features**

- (2) Ethernet, (4) Serial, (2) USB communication ports
- Compact size saves space
- Front accessible for easy wiring
- Heavy Duty Metal Enclosure with DIN or panel mounting brackets
- Fanless operation
- Internal Compact Flash
- HB2-MILEH has expansion slots for up to (2) PCI-104 cards, (1) Mini-PCI and/or internal HDD/SDD

Available Models & I/O Capacities				
Catalog Number	Discrete Inputs	Discrete Outputs	ModbusTCP Series	
HB-MOLEH-LT	up to 128	up to 128	2	
HB-MOLEH-1K	up to 1024	up to 1024	16	
HB-MOLEH-2K	up to 2048	up to 2048	32	
HB-MOLEH-8K	up to 8192	up to 8192	128	

SeftPLC.

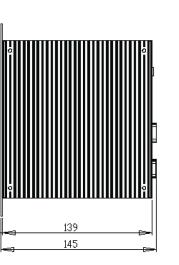
25603 Red Brangus Drive, Spicewood, TX 78669 512-264-8390 or 800-SoftPLC (US/Canada) FAX: 512-264-8399 info@softplc.com

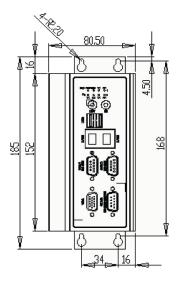
## Mini Hardbook SoftPLC Specifications

Hardbook	HB-MOLEH-x S	pecifications		
System Hardware				
CPU	AMD Geode LX800 (500MHz)			
Memory	256MB DDR2 SDRAM			
Storage	(1) internal type I/II Compact Flash slot (option: SATA HDD/SDD for HB-MILEH)			
Indicators	System: LEDs for Power, IDE, LAN and Serial			
Watchdog	Programmable			
I/O Interfaces				
Ethernet	(2) 10/100MB ports, RJ45			
Serial	(2) RS-232 ports 9 pin D-sub (2) RS-232/422/585 port, 9 pin D-sub			
USB	(2) USB Rev. 1.1 compliant			
Power Supply				
Power Consumption	15 W (typical)			
Power Requirement	9~36 VDC (24V @ 1A)			
Enclosure				
Construction	Heavy Duty Aluminum + SECC, Fanless w/internal cabling			
Mounting	DIN-rail or Panel Mount Brackets included			
Dimensions (LxWxH)	<b>HB-MOLEH</b> 2.8 x 6 x 5.5 in 96.5 x152x139mm	<b>HB2-MILEH</b> 3.4 x 6 x 5.5 in 85 x 152 x 139 mm		

Environmental				
Operating Temp	-10 ~ 60°C	14 ~ 140°F		
Storage Temp	-20 ~ 80°C	-4 ~ 176°F		
Humidity	20 ~ 95%, non-condensing, operating 0 ~ 95%, non-condensing, storage			
Shock Protection	IEC 60068-2-27 CompactFlash: 50 G; HDD: 20G @wall mount, half sine, 11ms			
Vibration Protection	IEC 60068-2-24 (Random 1 Oct/min, 1 hr/axis) CompactFlash: 2 Grms @ 5~500 Hz HDD: 1Grms@5~500Hz			
Certifications	CE, FCC Class A, UL, CCC			
Hazardous Locations	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			

Recommended Options		
ICO-PS4024	Din Rail Mount Power Supply, 40W, 24VDC	
SPZ-WEB	SoftPLC Embedded Web Server	
ICO-SS <i>x</i>	Surge Suppression Equipment	
TDNG-FN	TOPDOC NexGen Development/Maintenance Software	





HB-M0LEH-x Mounting Diagram (Dimensions in mm)