Mini Hardbook SoftPLC™ Processor

Cat. No. HB-M0QA-*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.

Front View

Rear View

Mini Hardbook SoftPLC Features

Hardbook SoftPLC's include the rich set of functions provided by SoftPLC Control Software, including:
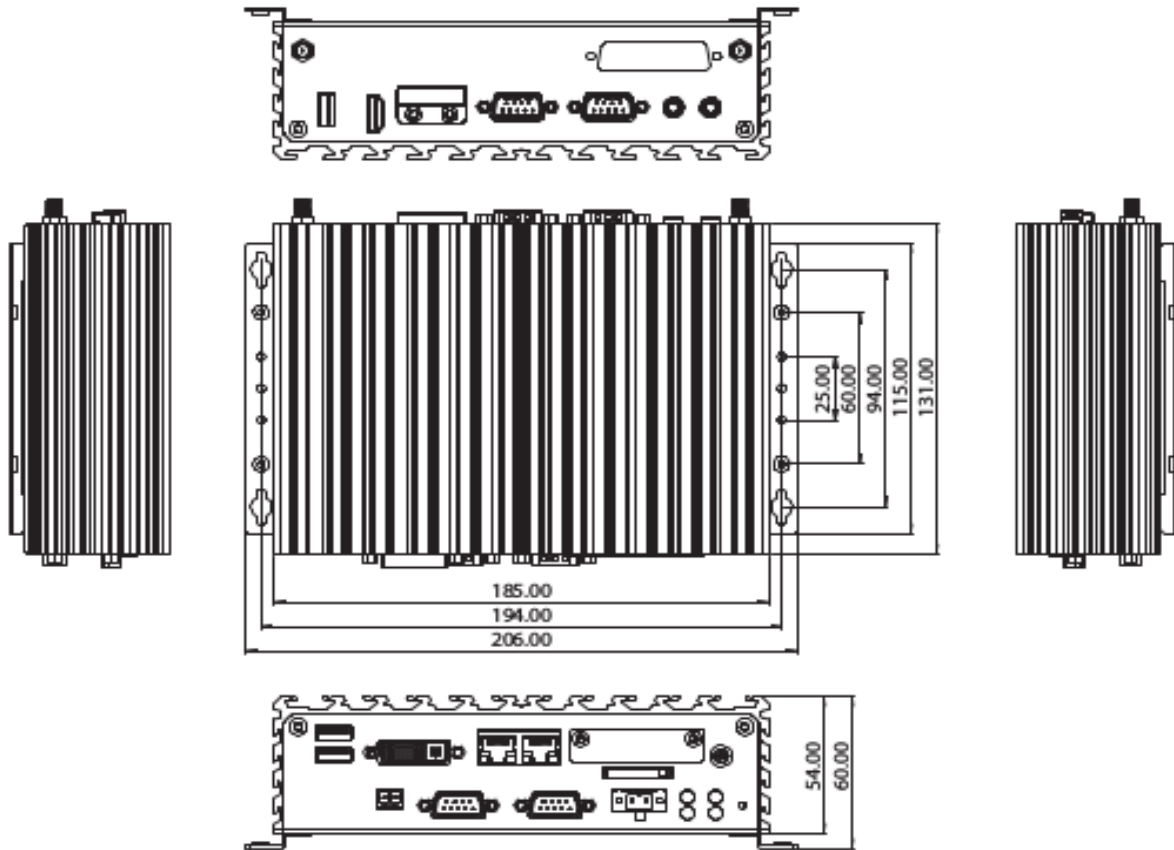
- Powerful Ladder Logic instruction set
- Loadable Instructions for specialized or user-written functions
- Unlimited user application memory for logic and data table
- All application documentation resides in the SoftPLC CPU
- Wide variety of I/O Drivers - ModbusTCP, Modbus Serial, and many others
- Communication Drivers – Ethernet/IP, A-B Ethernet, DF1, Modbus serial, ModbusTCP/UDP, others

- Compatible with all HMI/SCADA products
- Ladder logic/data table addressing similar to Allen-Bradley PLC-5/ SLC-500 with import/conversions available
- (2) LAN, (4) Serial, (4) USB ports
- Compact size saves space
- Front accessible for easy wiring
- Heavy Duty Metal Enclosure with panel mounting brackets
- Fanless operation
- Internal Compact Flash
- Optional wireless or Wi-Fi

Catalog Number	Discrete Inputs	Discrete Outputs	ModbusTCP Servers	Ethernet/IP Conn. Bytes
HB-M0QA-LT	up to 128	up to 128	2	64
HB-M0QA-1K	up to 1024	up to 1024	16	512
HB-M0QA-2K	up to 2048	up to 2048	32	1024
HB-M0QA-8K	up to 8192	up to 8192	128	4096

SoftPLC
CORPORATION

www.softplc.com

Hardbook HB-M0QA-*x* Specifications

System Hardware

CPU	1.46 GHz, Intel Atom E3826 dual core
Memory	4GB
Storage	C-Fast Flash slot, externally accessible

I/O Interfaces

Ethernet	(2) 10/100/1000 LAN ports, RJ45
Serial	(1) RS-232 port, 9 pin D-sub (RS-485 option) (3) RS-232/422/485 ports, 9 pin D-sub
USB	(2) USB Rev. 2.0, (1) USB 3.0 (900mA max)
PCI	Mini-PCIe w/ 2 Antenna holes and 1 SIM card holder

Power

Power Requirement	60W max
Power	9-30VDC

Enclosure

Construction	Aluminum chassis w/fanless design	
Mounting	Panel Mount Brackets (included), DIN-rail bracket optional	
Dimensions (WxDxH)	7.28 x 5.2 x 2.13 in	185 x 131 x 54 mm

Environmental

Operating Temp	-20 ~ 70˚C	-4~ 158˚F
Storage Temp	-30 ~ 85˚C	-22 ~ 185˚F
Humidity	10 ~ 95%, non-condensing	
Vibration	50G, half-sine, 11ms, IEC60068-2-27 Random: 2Grms@5~500Hz Sinusoidal: 2Grms@5~500Hz	
Standards	CE, FCC Class A, UL/cUL/RoHS	

HB-M0QA-x Mounting Diagram
(Dimensions in mm)