HyperPAC
Programmable Industrial PC

mks

The HyperPAC Industrial PC programmable control solution delivers top of the line performance with reliable operation for a variety of control and automation tasks. Compared to standard IPCs, the HyperPAC provides a highly compact, fanless solution, with existing expandable IO via PCIe, along with flexibility to expand and configure the system. The HyperPAC is a flexible, scalable solution for numerous applications and project requirements which enables IIoT integration.

Advancements in data accessibility along with reduced data storage costs have resulted in a tremendous demand for improved automation control and data analysis. The future of industry 4.0 smart factory and intelligent manufacturing movements begin with the MKS HyperPAC. MKS' solution will simplify integrating sensors and their corresponding data, structure data from multiple sources, perform real-time analysis of the data, and therefore create actionable information, and visualizations of this information which can be customized for various users.

Product Features

- 5x Ethernet ports

- Front access diagnostics

- Support Xeon® server-grade processor max 35W

- Intel® C236 PCH

- 2 SSD (1x removable, 1x internal)

- DDR4 ECC Memory (Error Correcting Code)

- Easy installation design for expand slot (PCIe x 1)

- Smart fan (optional) with PWM function

- EtherCAT®/DeviceNet™ master capability

Key Benefits

- Ease of fieldbus protocols integration with IIoT solution

- Compact form factor

- Robust IPC

- Flexible configuration

Specifications

System

CPU	Intel Xeon E3-1268L v5, 2.40 GHz, 35W
Storage Device	2.5" Drive Bay SSD removable 2.5" Drive Bay SSD fixed
Chipset	Intel C236 PCH
Memory	DDR4 16GB ECC SODIMM x 2, up to 32GB
Operating System	Windows® 10 IoT Enterprise LTSB, TenAsys INtime RTOS for Windows

I/O Interface

Display	2x HDMI type A for HDMI v1.4b 1x VGA

USB
   Front Panel
   Back Panel
	
	USB 2.0 x 2 Type A connector
	USB 3.0 x 4 Type A connector

Ethernet	RJ-45 x 5 for GbE (intel I211AT x I219LM x 1)
Audio	Audio x 2 (MIC-in, Line-out)
Power	2 x on/off switch (1 on front and 1 on back) 2 pin remote power on/off connector 1x 3-pin DC power input (+, -, GND)
Communication	1x DB-9 ports for RS-232/422/485

Expansion Slots

Slot 1	Full size mini card (PCIe)
Slot 2	Full size mini card (PCIe)
Slot 3	PCIEx[1] * 1

Power Requirement

Power Input	12 - 24 VDC
Power Consumption	Max 35 W (CPU); 120W (Adapter)

Mechanical

Mounting	Wallmount (horizontal and vertical)
Dimensions (W x H x D)	195mm x 110 mm x 260 mm
Net Weight	9.9 lb (4.9 kg)

Environmental

Operating Temperature	0°C ~ 55°C according to IEC60068-2 with 0.5m/s airflow (with smart fan)
Storage Temperature	-40°C ~ 80°C
Relative Humidity	5% to 95%, @ 40°C, non-condensing
Vibration	Random, 1GRMS, 5~500Hz, anti-vibration design
Shock Tolerance/Immunity	15 G (1/2 sine, 11 ms)

Qualification

Compliance	CE, FCC Class A

Top View

Rear View

260

110

Side View

195

Front View

226

150

212
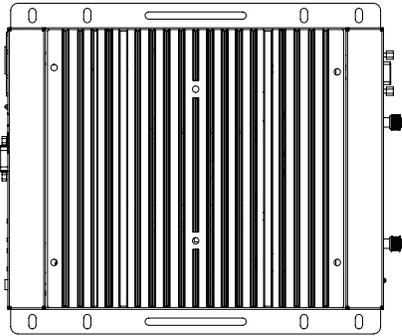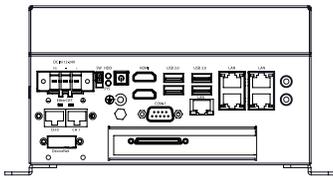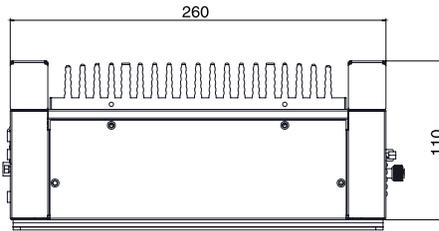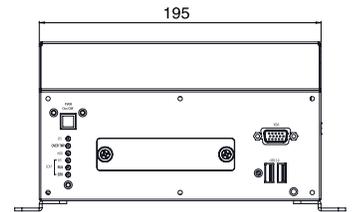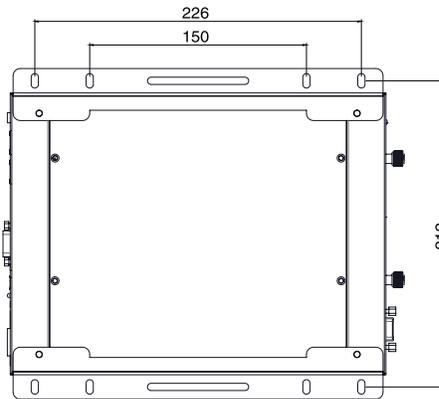
Bottom View

Note: Unless otherwise specified, dimensions are nominal values in millimeters.

Ordering Information

HyperPAC Programmable Industrial PC

Part Number	Description
AS08640G-01	Industrial PC, Xeon CPU, 32GB ECC DRAM, PWM fan option

Please contact your local MKS office for price and availability information.

www.MKSINST.com
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