



Main Features

- 6th Generation Intel® Core™ i7/i5/i3 MAX 65W LGA1151 Socket Processor, PCH H110
- 2 x SO-DIMM DDR4 with non-ECC SO-DIMM 2133/1867MHZ up to 32GB
- Support Multi Display VGA+HDMI
- 4 x Intel® GbE LAN ports, 2 x USB3.0, 6 x USB2.0, 2x RS232/485/422, 1 x SATAIII, HD Audio
- 1 x PCIe16, 1 x Mini PCIe
- 12 x GPI, 4GPO, DC24V

Product Overview

MARS200 box PC is based on the 6th Intel® Core I/Celeron processor (formerly codenamed “Skylake”) to support 35/65W CPU, PCH H110 chipset. It comes with two DDR4 DIMM sockets up to 32GB DDR4 2133/1867MHz with Non-ECC support and an integrated HD Graphic controller. MARS200 operates at a temperature range from 0°C to 50°C. This box PC is ideal for embedded applications that run in outdoor or semi-outdoor environments, such as kiosks, small smart equipment, outdoor systems installed in harsh environments, home automation, and thin clients.

Specifications

CPU/Chipset

- 6th Gen core i7/i5/i3 LGA1151 socket, Max 65W
- Intel® H110 Express Chipset

Main Memory

- 2 x DDR4 SO-DIMM memory Socket with non-ECC support, up to 32 GB 2133/1876MHZ

BIOS

- AMI (UEFI)

Display

- 1 x HDMI1.4 connector (resolution up to 4096x2304@24Hz)

System

- 12in (NPN/PNP type), 4 out (NPN type), need optional board

Storage

- 1 x SATA III (6.0Gb/s) ports

Expansion Slot

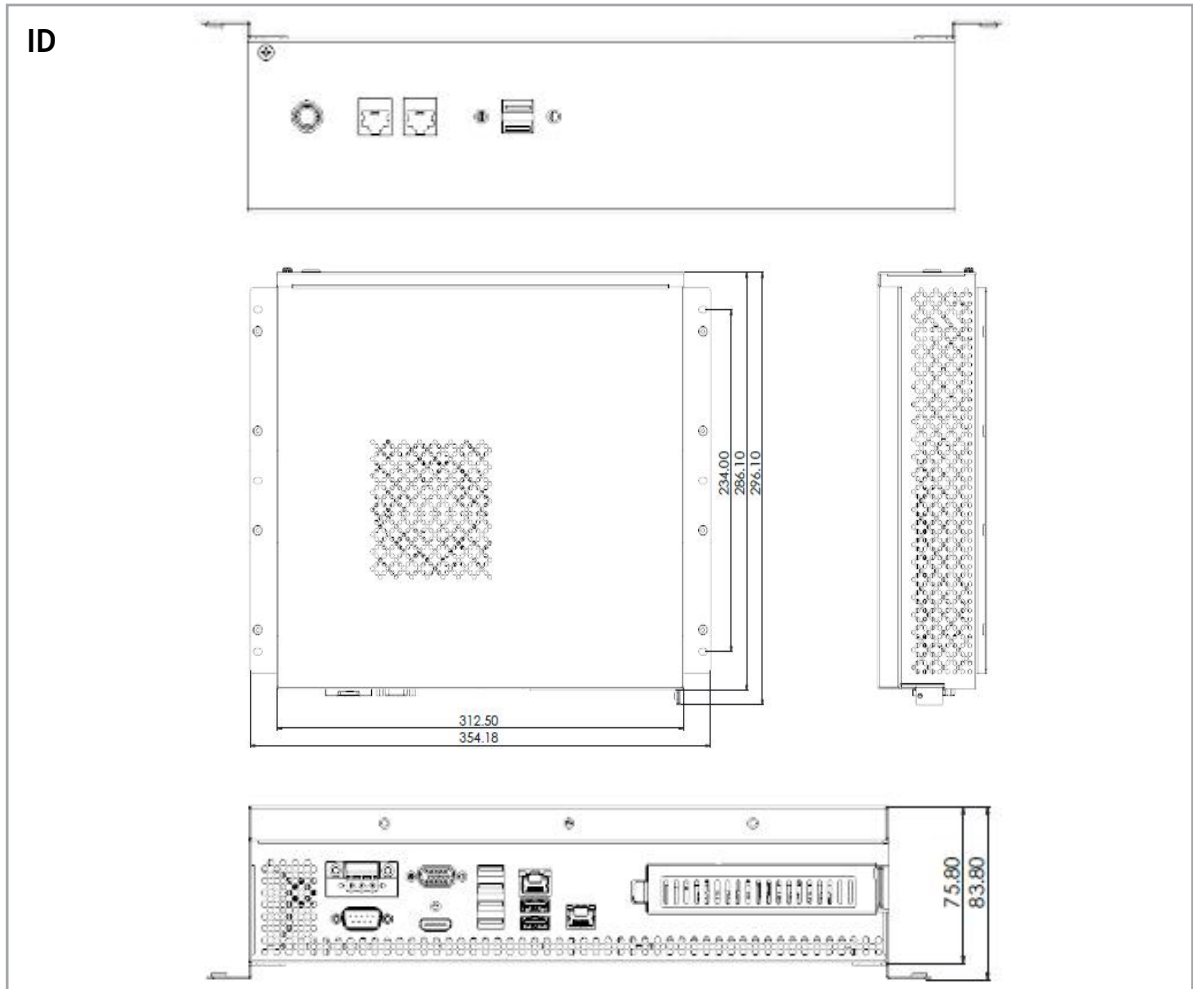
- 1 x PCIe16, 1 x Full size Mini PCIe

Rear I/O

- 1 x DB9 for RS232/422/485
- 1 x HDMI
- 2x USB 3.0, 4 x USB2.0
- 1 x DB15 for VGA
- 2 x LAN port (one port can be PoE port, IEEE 802.3af compliant, need optional PSE board)
- 1x 3pin Terminal block for DC24V in, pin define: +24V, GND, NC
- 1x PCIe slot

Front I/O

- 1 x Power switch
- 2 x USB2.0 Double deck
- 2 x LAN port



Power Requirement

- 1 x 4-pin ATX Power Connector input
- DC24 input $\pm 10\%$
- AT/ATX power mode (by jumper setting, default AT)

Dimensions

- 312.5 X 286.1 X 75.8 mm (without mounting bracket)
- 354.18 x 286.1 x 83.8 mm (with mounting bracket)

Environment

- Board level operation temperature: 0°C to 50°C
- Storage temperature: -20°C to 80°C
- Relative humidity:
 - 10% to 90% (operating, non-condensing)
 - 5% to 90% (non-operating, non-condensing)

Certifications

- Meet CE/FCC Class A

Shock

- 50g peak acceleration (11 msec. duration)
- SE: HDD IRT: SSD (non-operation)

Vibration

- Non-operation (X-Y-Z): Sine vibration (SE: SSD)
 - Sine wave vibration test:
 - Acceleration: 2g rms
 - Frequency: 5-500 Hz
- Operation (X-Y-Z): Random vibration (IRT: SSD)
 - Random vibration test (Operating):
 - Accelerate: 2g rms
 - Frequency: 5-500 Hz
- Operation (X-Y-Z): Sine vibration (SE: HDD)

Ordering Information

Barebone

- **MARS200 (P/N: 10JFOMARS00XF)**

Motion Automation Relay System, 6th Generation Intel® Core™ LGA1151 Processor, H110, LGA1151, DDR4 x2 up to 32GB, 1 x HDMI, 1 x VGA, 2 x USB3.0, 6 x USB2.0, 4 x GbE, 1 x SATAIII, 2 x RS232/422/485, 1x PClex16, 1 x Mini PCIe