AIGE304

Main Features

- Support 8th/9th Gen. Intel® Core™ i7/i5/i3 LGA 1151 socket CPU processor
- Intel® Q370 PCH, compatible with CPU up to MAX Octal core 95W TDP
- Compact design to support 3 expansion slots: 1 x PCIe x16, 1 x PCIe x4, 1 x PCIe x1
- Support three independent display: 1 x DP, 1 x VGA, 1 x DVI-D (HDMI)

- Support 6 x USB 2.0, 2 x USB 3.0, 3 x RS232, 1 x RS232/422/485
- 2 x Intel® GbE LAN ports (RJ45)
- Support +19V to +32V DC input
- Suitable applications: light industrial automation, AOI inspection, machine vision system

Product Overview

AIGE304 series is a backplane, compact and powerful computer, supports the 8th/9th Gen Intel® Core™ i7/i5/i3 LGA 1151 socket CPU processor, 2 x 260-pin DDR4 SO-DIMM, up to 64GB, 3 expansion slots: 1 x PCIe x16, 1 x PCIe x4, 1 x PCIe x1. It can pair with motion cards, DAQ cards, GPU cards, and other peripheral devices, for multiple-purpose tasks such as data acquisition and analysis, AI, and other applications. The AIGE304 is an easy-to-use yet easy-to-maintain platform, also an ideal solution for a variety of applications.

Specifications

CPU Support
- Support 8th/9th Gen Intel® Core™ i7/i5/i3 LGA 1151 socket type CPU processor up to Octal core. Intel® Q370 95W TDP

Main Memory
- 2 x 260-pin DDR4 SO-DIMM, up to 64GB

Display Output
- 1 x DVI-I connector
  - DVI-I (VGA): resolution up to 1920 x 1200 pixels @ 60MHz
  - DVI-D (HDMI): resolution up to 4096 x 2304 pixels @ 60MHz
- 1x DP connector (optional)
  - Display port: resolution up to 4096 x 2304 pixels @ 60MHz

I/O Interface- Front
- 1 x ATX power on/off switch
- 2 LED indicators:
  - Power on LED x 1
  - Hard disk active LED x 1
- 2 x USB 2.0 ports
- 1 x Reset button
- 2 x 2.5" SATA HDD mobile rack
- 0/1/5/10 SATA RAID

I/O Interface-Rear
- 2 x Intel® GbE LAN ports
  - 1 x Intel® WG1219LM GbE PHY
  - 1 x Intel® I211 Gigabit Ethernet controller
- 4 x USB 2.0, 2 x USB 3.0
- 3 x RS232
- 1 x RS232/422/485

Storage Device
- M.2 2280 Key M (PCIe Gen3 x 4 NVMe or SATA3 Key B & M)
- 2 x 2.5" SATA SSD mobile rack

Expansion
- One PCIe x1 Gen3 slot: length max. 210 mm
- Two PCIe x4 Gen3 slot: length max. 210mm
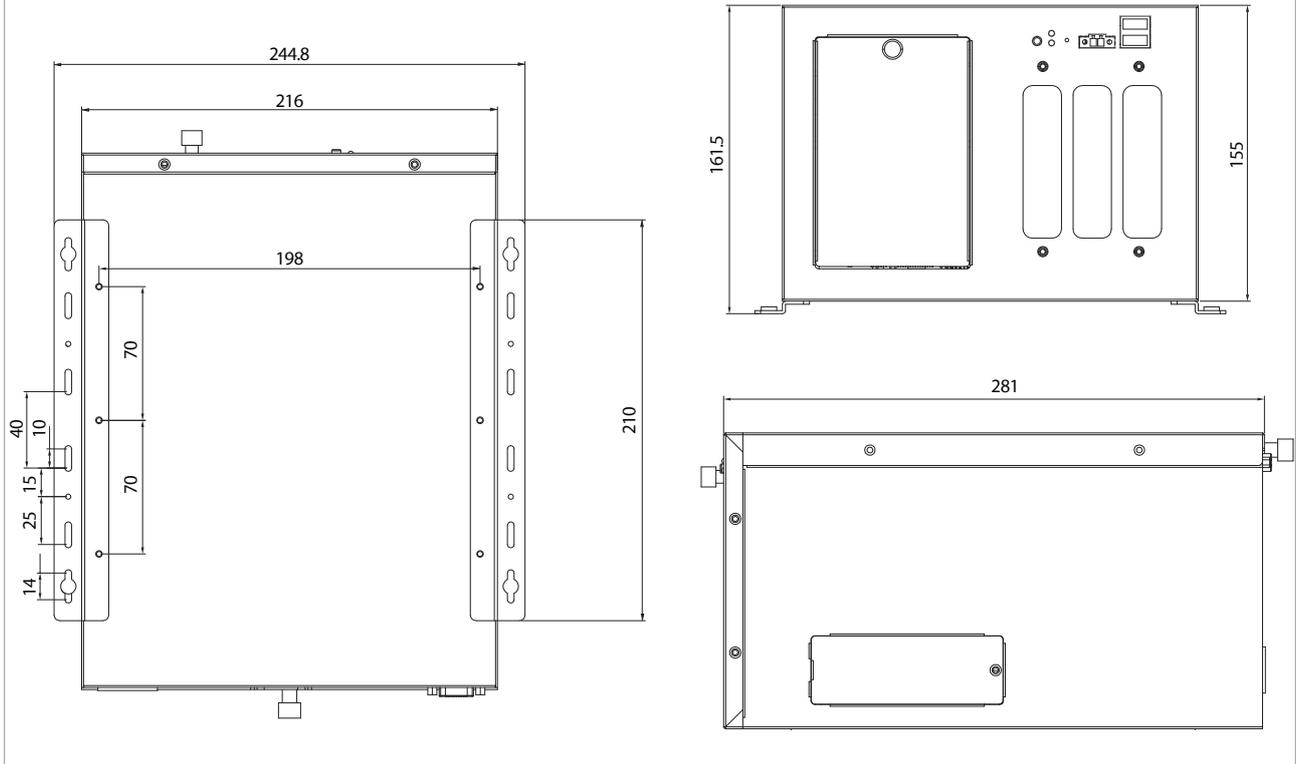- One PCIe x16 Gen3 slot: length max. 210mm

Power Requirement
- Power input: 100V~240V AC to ATX (400W)

Dimensions
- 216mm (W) x 281mm (L) x 155mm (H) without wall mount bracket

Dimension Drawing

Environment
- Operating temperature: ambient with air flow: 0°C~60°C
- Relative humidity: 10% to 93% (non-condensing)

Certifications
- CE approval
- FCC Class A
- LVD
  - IEC 62368-1: 2014 (second Edition)
  - EN 62368-1: 2014+A11: 2017 (second Edition)
  - BS EN 62368-1: 2014+A11: 2017

OS Support List
- Windows 10 64 bits
- Linux

Weight Information
- Gross weight: 5 kg
- Net weight: 6kg

Ordering Information

- **AIGE304 (P/N: 10AIGE30400XR)**
  CP-value AI Edge, 8/9th Gen Intel® Core™ I7/I5/I3, 65W