

FXAL-10V2.0

Intel® Alder Lake/Raptor Lake-U/P Series Processor based Mini PC with 4HDMI



Features

- CPU: Intel® Alder Lake/Raptor Lake-U/P Series
- Memory: Dual channel SO-DIMM DDR4 up to 64GB
- GPU: Intel Iris® Xe Graphics eligible/UHD Graphics, display via 4xHDMI2.0
- Ethernet: Intel® i226(2.5GbE) + Intel® i219(1.0GbE)
- Storage&Expansion: SATA3.0, M.2 Key M Slot for NVMe SSD, M.2 Key B Slot for SATA SSD/4G, M.2 Key E Slot for WiFi & BT, PCIe x4 Slot
- Power: 19V/12V DC-IN



Introduction

The FXAL-10 is a compact Mini PC powered by Intel® Alder Lake and Raptor Lake series processors, offering scalable performance from Core™ i3 to Core™ i7. Designed for commercial environments, it delivers smooth multitasking and reliable graphics performance with support for up to 12 cores, high turbo frequencies, and Intel® integrated graphics. Dual-channel DDR4 memory up to 64GB and four independent HDMI 2.0 outputs make the FXAL-10 an ideal platform for multi-screen digital signage, video walls, and information display systems.

Built for continuous operation in professional settings, the FXAL-10 features dual LAN connectivity (2.5GbE + 1GbE), flexible storage and expansion via PCIe Gen 4 x4 and multiple M.2 slots for NVMe SSDs, SATA devices, Wi-Fi/Bluetooth, and optional 4G modules. Active cooling ensures stable performance during long operating hours, while AMI UEFI BIOS, watchdog support, and hardware monitoring enhance system reliability. Supporting Windows 10/11 and Linux 64-bit operating systems, the FXAL-10 is well suited for commercial digital signage, retail displays, corporate AV, and multi-display content delivery applications.



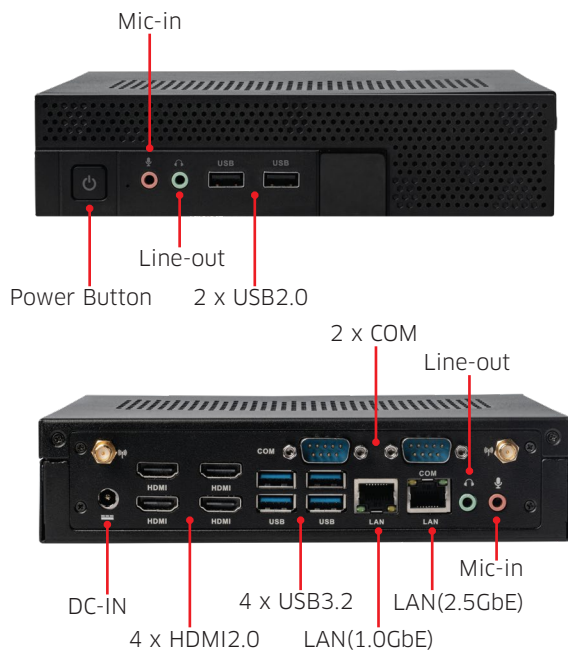
H/W Monitor



Watchdog



I/O Interfaces

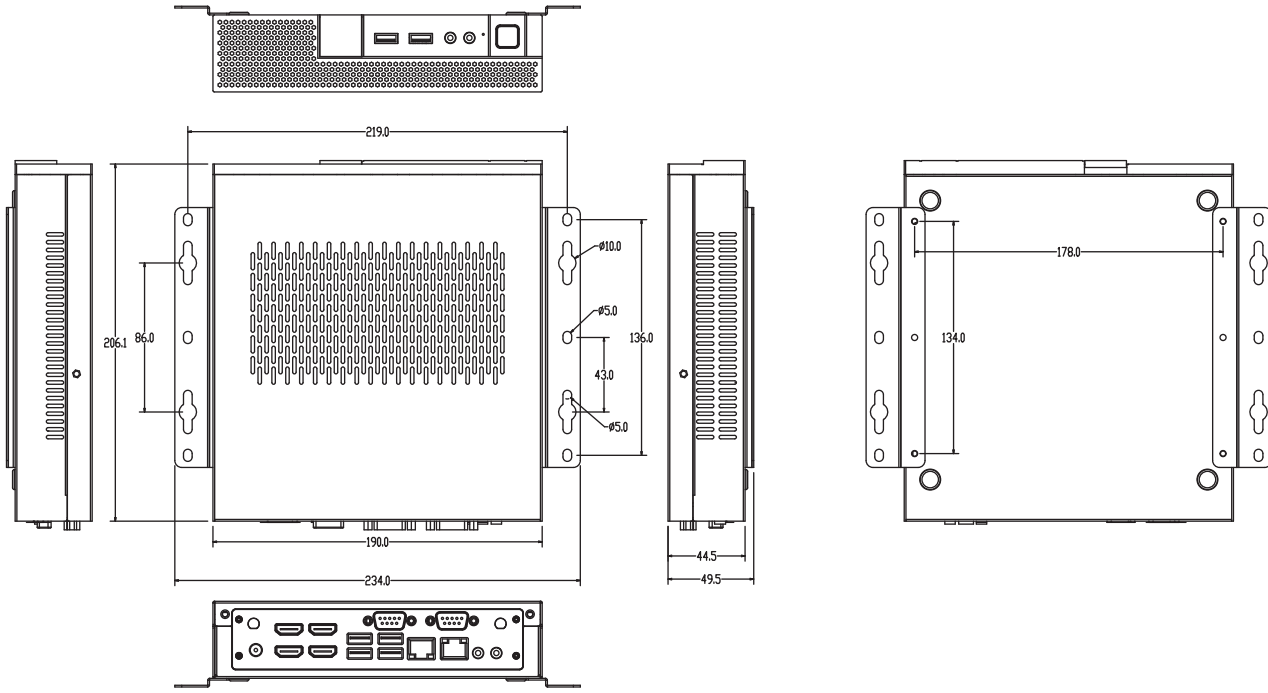


Technical Specifications

| | | | | |
|---------------------|--|--|---------------------------|---------------|
| Processor | Alder Lake/Raptor Lake | Core i3-1215U | Core i7-1255U | Core i7-1360P |
| | Total Cores/Threads | 6C/8T | 10C/12T | 12C/16T |
| | P-core Max Frequency | 4.4 GHz | 4.7 GHz | 5.0 GHz |
| | E-core Max Frequency | 3.3 GHz | 3.5 GHz | 3.7 GHz |
| | Cache | 10 MB | 12 MB | 18 MB |
| | TDP | 15 W | 15 W | 28 W |
| | BIOS | AMI UEFI BIOS | | |
| | Memory | Type | Dual Channel SO-DIMM DDR4 | |
| Max Capacity | | 64GB | | |
| Display | GPU | Intel® Integrated Graphics (Iris Xe/UHD Graphics depends on CPU) | | |
| | Display Port | 4 x HDMI2.0 | | |
| Ethernet | Controller | 1 x Intel i226, Data Rate Per Port: 2.5GbE | | |
| | | 1 x Intel i219, Data Rate Per Port: 1.0GbE | | |
| | Interface | 2 x RJ45 | | |
| | Wake on LAN | Yes | | |
| Audio | Audio Codec | Realtek HD ALC897 | | |
| | Interface | 2 x Line-out, 2 x Mic-in, supports audio header and amplifier header | | |
| Hardware Monitoring | CPU temperature, system temperature, onboard voltage, watchdog | | | |
| Storage/Expansion | SATA | 1 x SATA3.0 | | |
| | M.2_N | 1 x M.2 Key M Slot for 2280 NVMe SSD | | |
| | M.2_S | 1 x M.2 Key B Slot for 2242 SATA SSD/4G Module | | |
| | M.2_E | 1 x M.2 Key E Slot for 2230 WiFi and Bluetooth, support CNVi | | |
| | PCIe x4 | 1*PCIe x4 Gen 4 Slot | | |
| Other I/O | USB2.0 | 2 x USB2.0 | | |
| | USB3.2 | 4 x USB3.2 | | |
| | COM | 2 x COM | | |
| Dimension | Size | 206.1 mm x 190 mm x 44.5mm (L x W x H) | | |
| Power | Standard Port | 19V/12V DC-IN | | |
| Temperature | Operating Temp. | -20°C to 60°C | | |
| | Storage Temp. | -40°C to 80°C | | |
| Cooling | Active | | | |
| Operating System | Win 10/11 64bit, Linux 64bit | | | |

*All specifications and photos are subject to change without notice.

Dimension(in mm)



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