

# AF208

## ALDER LAKE-N SEMI-INDUSTRIAL COMPUTER



Intel® Alder Lake-N  
N-series/Core™ processors



1 x DP (4096 x 2160 @60 Hz)  
1 x HDMI (4096 x 2160@60 Hz)



Support Wi-Fi/BT module



Fanless design  
Wide temperature and voltage

### CPU

<b>CPU</b>	Intel® Processor N97 Intel® Atom X7211E Processor
<b>Turbo Frequency</b>	3.60 GHz /3.20 GHz
<b>Chipset</b>	SoC
<b>Processing Units</b>	4 Cores /2 Cores
<b>Base Power</b>	12 W /6 W

### Network

<b>Network Controller</b>	1 x Intel i226-V Gigabit Ethernet 1 x Intel i210-AT Gigabit Ethernet
<b>Ethernet Interface</b>	1 x 2.5 GbE RJ45, 1 x 1 GbE RJ45
<b>Wi-Fi/BT</b>	1 x E-Key M.2 (2230) for Wi-Fi/BT Support Wi-Fi 5/6/6E (CNVi)
<b>Mobile Network</b>	NA

### System

<b>System Memory</b>	8/16 GB, Onboard LPDDR5-4800 MHz, Single-channel
<b>Storage</b>	1 x M-Key M.2 (2280) for PCIe3.0 X4 SSD
<b>TPM</b>	Optional: TPM2.0
<b>Watchdog Timer</b>	Yes
<b>Auto Power On</b>	Yes
<b>RTC</b>	Set up independently every day, a week as a cycle
<b>Power Requirement</b>	Lockable DC-IN, 12~24 V, 45 W
<b>Dimensions</b>	160 mm x 130 mm x 60 mm (6.30" x 5.12" x 2.36")
<b>Construction</b>	Metal, Grey
<b>Cooling System</b>	Fanless, passive cooling
<b>Operating System</b>	Windows 11 (64bit) /Linux Ubuntu (64bit)
<b>Operating Temperature</b>	-20°C ~60°C (-4°F~140°F) @0.7m/s Air Flow <sup>(1)</sup>
<b>Humidity</b>	10% ~ 90% @45°C (non-condensing)
<b>Storage Temperature</b>	-40°C ~80°C (-40°F~176°F) not include the package
<b>Certifications</b>	CE, FCC Class B, UKCA

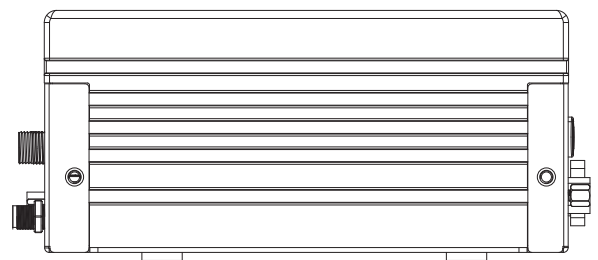
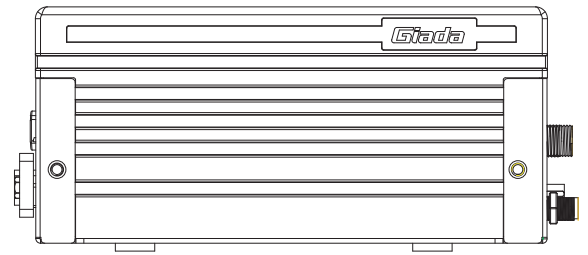
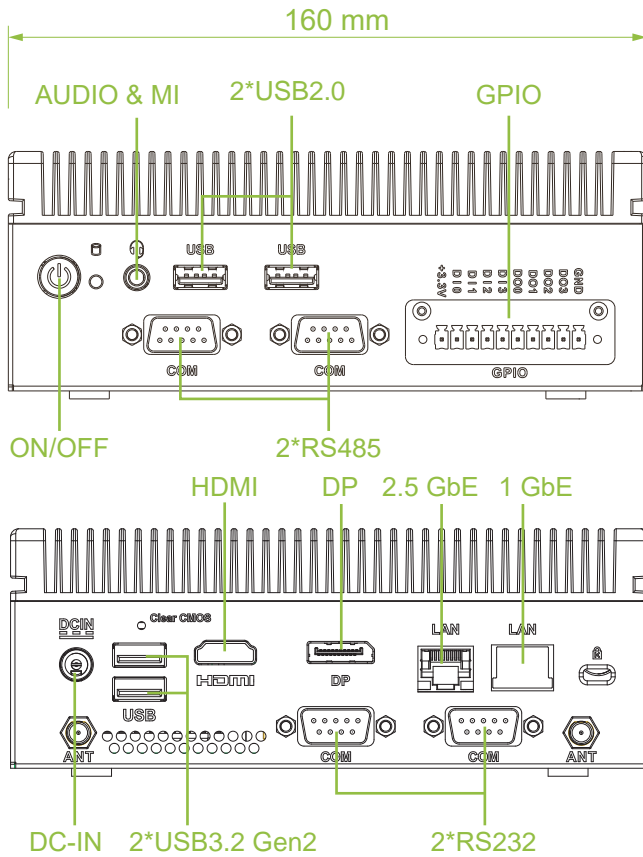
### Display

<b>GPU</b>	Intel® UHD Graphics
<b>Graphic Engine</b>	DirectX 12.1, OpenGL 4.6, OpenCL 3.0, 8K 60fps 12b 4:2:0 HEVC/VP9/SCC
<b>Display Interface</b>	1 x HDMI2.0 (Max.4096 x 2190 @60 Hz) 1 x DP1.2 (Max.4096 x 2160 @60 Hz) colay VGA
<b># of Displays Supported</b>	2

### I/O interface

<b>USB</b>	2 x USB3.2 Gen2 (10 Gbps), 2 x USB2.0
<b>Serial Port</b>	2 x RS232, 2 x RS485
<b>Audio</b>	1 x 2-in-1 headset (MIC-IN & AUDIO-OUT)
<b>Button</b>	1 x Power on, 1 x CLR-CMOS
<b>GPIO</b>	10pin GPIO (4 x GPI, 4 x GPO)
<b>Antenna</b>	2 x Connector for Wi-Fi/BT

## Dimensions and Drawing



## Optional items

<b>Mounting</b>	Wall-mounting Kit (JC283)
<b>Wi-Fi/BT Module</b>	<b>Wi-Fi 5 (802.11ac):</b> Intel® Wireless-AC 9260, Intel® Wireless-AC 9560 <b>Wi-Fi 6 (802.11ax):</b> Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6 AX201, <b>Wi-Fi 6E (802.11ax):</b> Intel® Wi-Fi 6E AX210
<b>Operating System License</b>	Windows 11 (64bit)