



Middle Range Embedded Computer



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

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

Network

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

System

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

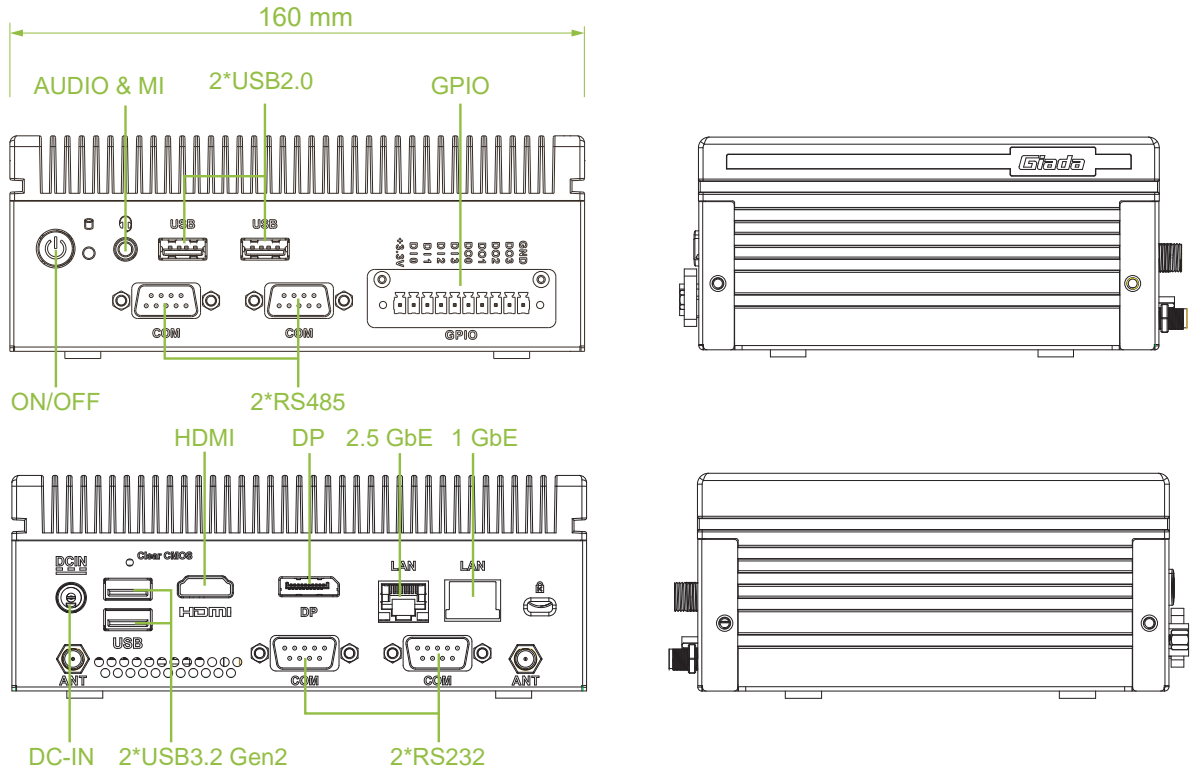
Display

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

I/O interface

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

Dimensions and Drawing



Order information

AF208-N9753N0G-GIA	CPU: Intel® Processor N97 Memory: 8 GB, LPDDR5, Single-channel
AF208-7211E53N0G-GIA	CPU: Intel® Atom X7211E Processor Memory: 8 GB, LPDDR5, Single-channel
Packing List	2 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter
Package	Carton, EPE

⁽¹⁾ If the device operates at ambient temperature above 50 °C for a long time, it is recommended to use wide-temperature memory and storage.

Optional items

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



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