



Middle Range Embedded Computer



F108D

ALDER LAKE-N BOOK-SIZE SIGNAGE PLAYER



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



1 x DP (Max. 4096x 2160 @60 Hz)
2 x HDMI (Max. 4096 x 2160 @60 Hz)



Support Wi-Fi/BT module
Support 3G/4G module



Fanless design
(Intel® Processor N100)

CPU

CPU	Intel® Processor N100 (Fanless) Intel® Processor N95
Turbo Frequency	3.40 GHz /3.40 GHz
Chipset	SoC
Processing Units	4 Cores/4 Cores
TDP	6 W/15 W

System

System Memory	Up to 16 GB, 1 x SO-DIMM DDR4-3200 MHz
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
Remo on	Yes
Power Requirement	DC-IN, 19 V/2.37 A
Dimensions	189.6mm x 148.3mm x 26mm (7.46" x 5.83" x 1.02")
Construction	Metal, Black
Operating System	Windows 11 (64bit) /Linux Ubuntu (64bit)
Operating Temperature	0°C ~45°C (32°F~113°F) @0.7m/s Air Flow
Humidity	95% @ 45°C (non-condensing)
Certifications	CE, FCC Class B, UKCA

Network

Network Controller	2 x Realtek RTL 8111H Gigabit Ethernet
Ethernet Interface	2 x RJ45
Wi-Fi/BT	1 x E-Key M.2 (2230) for Wi-Fi/BT Support Wi-Fi 5, Wi-Fi 6
Mobile Network	1 x B-Key M.2 (3042) for 3G/4G 1 x SIM Slot

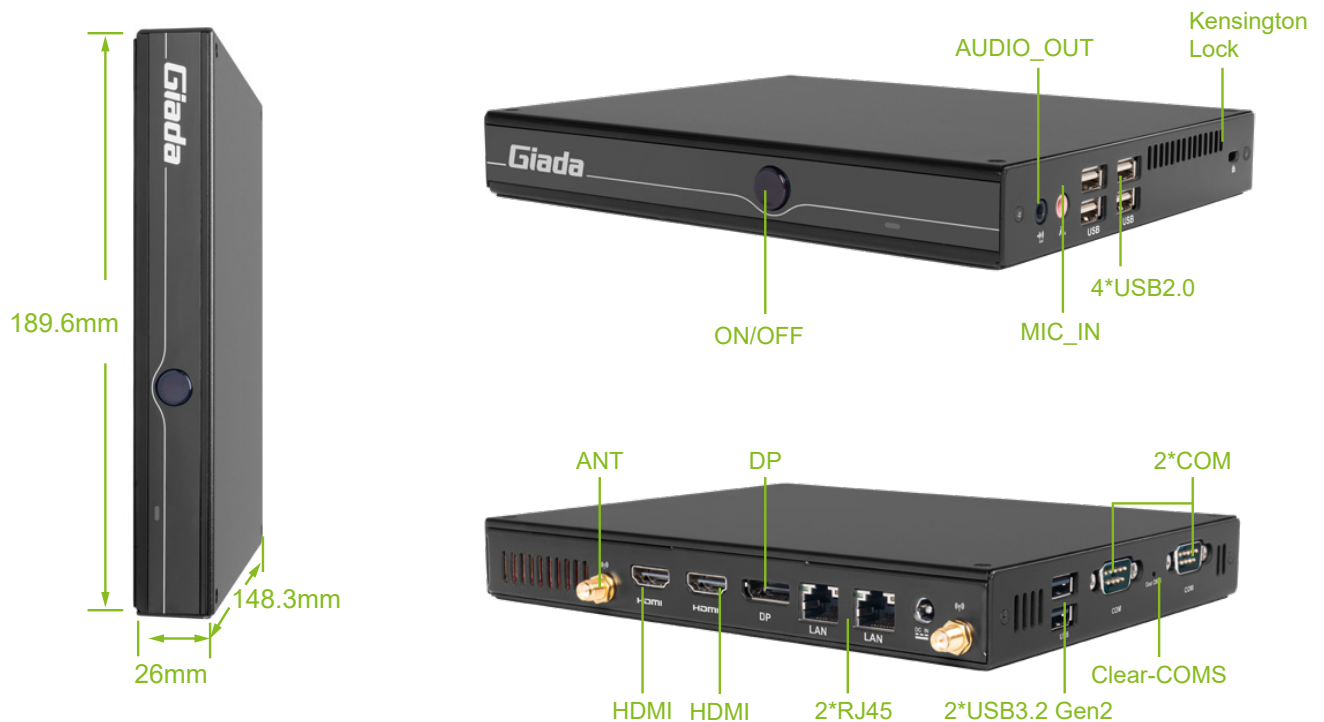
Display

GPU	Intel® UHD Graphics
Graphic Engine	DirectX 12.1, OpenGL 4.6, OpenCL 3.0,
Display Interface	1 x DP (Max.4096 x 2160 @60Hz) 2 x HDMI (Max.4096 x 2160 @60Hz)

I/O interface

USB	2 x USB3.2 Gen2, 4 x USB2.0
Serial Port	2 x RS232
Audio	1 x MIC-IN, 1 x AUDIO-OUT
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Connector for Wi-Fi/BT

Dimensions and Drawing



Order information

F108D-FV-N10040N0G-GIA	CPU: Intel® Processor N100
F108D-NU-N9540N0G-GIA	CPU: Intel® Processor N95
Packing List	2 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter
Package	Carton, EPE

Optional items

VESA Mounting	VESA Mounting Kit (JZ183)
Wi-Fi/BT module	Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6E AX210 (Gig+)
Mobile network module	Quectel® EC25 4G,
Operating system License	Windows 11 (64bit)

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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