



## High Performance Embedded Computer



# DF612

## ALDER LAKE FANLESS SIGNAGE PLAYER



Intel® Alder Lake-P  
Core processors



1 x DP (7680 x 4320 @60 Hz)  
2 x HDMI (4096 x 2304 @60 Hz)



Support Intel® vPro® technology



Fanless design

### CPU

<b>CPU</b>	Intel® Core™ i3-1215U processor Intel® Core™ i5-1235U processor Intel® Core™ i7-1255U processor
<b>E-Core Frequency</b>	3.30 GHz /3.30 GHz/3.50 GHz
<b>P-Core Frequency</b>	4.40 GHz /4.40 GHz/4.70 GHz
<b>Chipset</b>	SoC
<b>Processing Units</b>	6 Cores /10 Cores/10 Cores
<b>Base Power</b>	15 W /15 W/15W

### Network

<b>Network Controller</b>	1 x Intel i219-LM Gigabit Ethernet 1 x Realtek RTL8111H Gigabit Ethernet
<b>Ethernet Interface</b>	2 x 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>	1 x B-Key M.2 (3042) for 3G/4G, 1 x SIM Slot

### System

<b>System Memory</b>	Up to 64 GB, 2 x SO-DIMM DDR4-3200 MHz
<b>Storage</b>	1 x M-Key M.2 (2280) for PCIe 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>Remo on</b>	NA
<b>Power Requirement</b>	DC-IN, 19 V/3.42 A
<b>Dimensions</b>	200 mm x 150 mm x 40 mm (7.87" x 5.90" x 1.57")
<b>Construction</b>	Metal, Grey
<b>Fanless</b>	Yes
<b>Operating System</b>	Windows 11 (64bit) /Linux Ubuntu (64bit)
<b>Operating Temperature</b>	0°C ~45°C (32°F~113°F) @0.7m/s Air Flow
<b>Humidity</b>	95% @ 45°C (non-condensing)
<b>Certifications</b>	CE, FCC Class B, UKCA

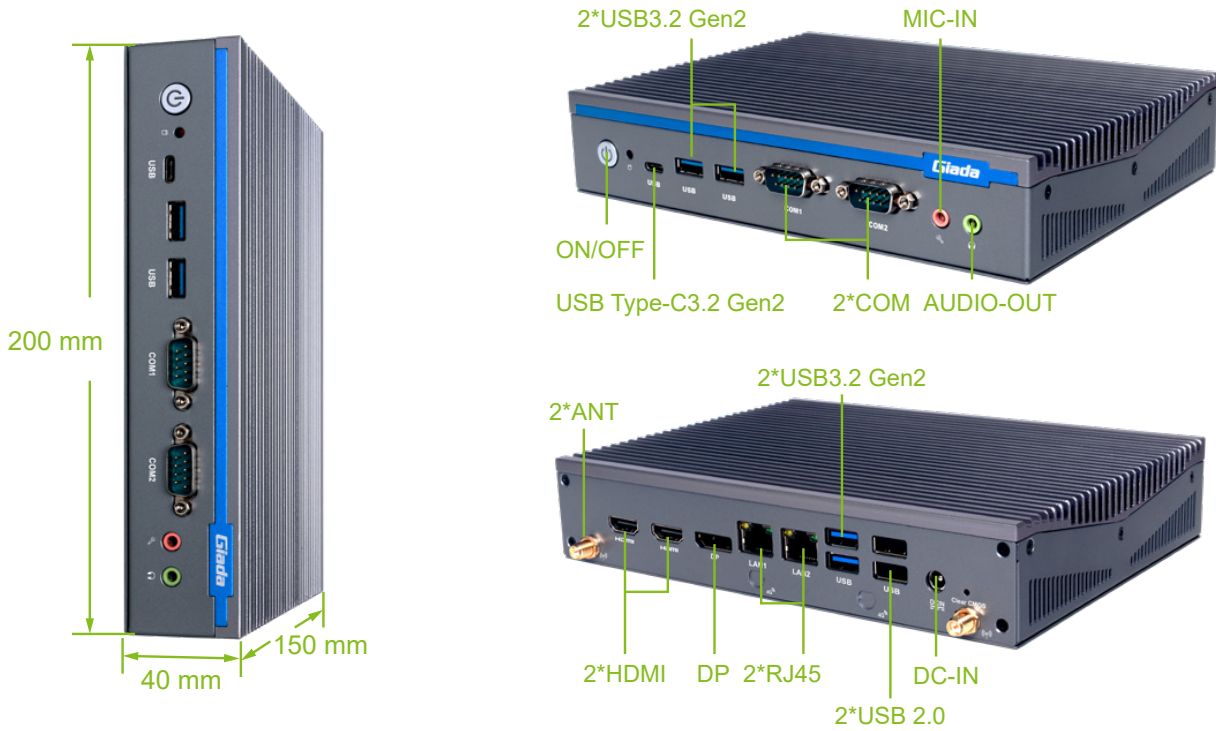
### Display

<b>GPU</b>	Intel® UHD Graphics (Core i3) Intel® Iris® X® Graphics (Core i5/i7)
<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 DP (Max.7680 x 4320 @60 Hz) 2 x HDMI (Max.4096 x 2304 @60 Hz)

### I/O interface

<b>USB</b>	1 x USB Type-C3.2 Gen2 (10 Gbps), 4 x USB3.2 Gen2 (10 Gbps), 2 x USB2.0
<b>Serial Port</b>	1 x RS232, 1 x RS232/422/485
<b>Audio</b>	1 x MIC-IN, 1 x AUDIO-OUT
<b>Button</b>	1 x Power on, 1 x CLR-CMOS
<b>Antenna</b>	2 x Connector for Wi-Fi/BT 2 x Connector for 3G/4G (Reserved)

## Dimensions and Drawing



## Order information

<b>DF612-1215U40N0G-GIA</b>	CPU: Intel Core i3-1215U
<b>DF612-1235U40N0G-GIA</b>	CPU: Intel Core i5-1235U
<b>DF612-1255U40N0G-GIA</b>	CPU: Intel Core i7-1255U
<b>Packing List</b>	2 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter
<b>Package</b>	Carton, EPE

## Optional items

<b>VESA Mounting</b>	VESA Mounting Kit
<b>Wi-Fi/BT Module</b>	Intel® Dual Band Wireless-AC 3165, Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6E AX210 (Gig+)
<b>Mobile Network Module</b>	Quectel® EM12 4G
<b>Operating System License</b>	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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