Giada

High Performance Embedded Computer



DF612

ALDER LAKE FANLESS SIGNAGE PLAYER

Intel® Alder Lake-P Core processors

2 x HDMI, 1 x DP
Up to 7680 x 4320 @60 Hz

Support Intel® vPro® technology

Fanless design

CPU

CPU	Intel® Core™ i3-1215U processor Intel® Core™ i5-1235U processor Intel® Core™ i7-1255U processor
Chipset	SoC
Total Cores	6 Cores /10 Cores/10 Cores
Total Threads	8 /12 /12
Base Power	15 W /15 W/15W

Network

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

System

System Memory	Up to 64 GB, 2 x SO-DIMM DDR4-3200 MHz
Storage	1 x M-Key M.2 (2280) for PCIe 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	DC-IN, 19 V/3.42 A
Dimensions	200 mm x 150 mm x 40 mm (7.87” x 5.90” x 1.57”)
Construction	Metal, Grey
Fanless	Yes
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

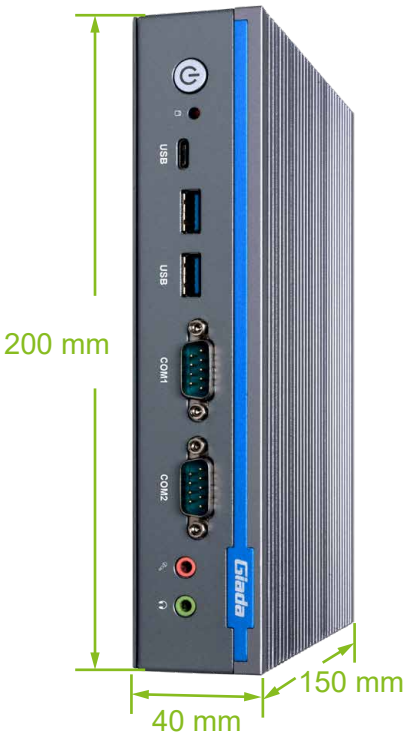
Display

GPU	Intel® UHD Graphics (Core i3) Intel® Iris® Xᵉ Graphics (Core i5/i7)
Graphic Engine	DirectX 12.1, OpenGL 4.6, OpenCL 3.0, 8K 60fps 12b 4:2:0 HEVC/VP9/SCC
Display Interface	1 x DP (Max.7680 x 4320 @60 Hz) 2 x HDMI (Max.4096 x 2304 @60 Hz)
# of Displays Supported	3

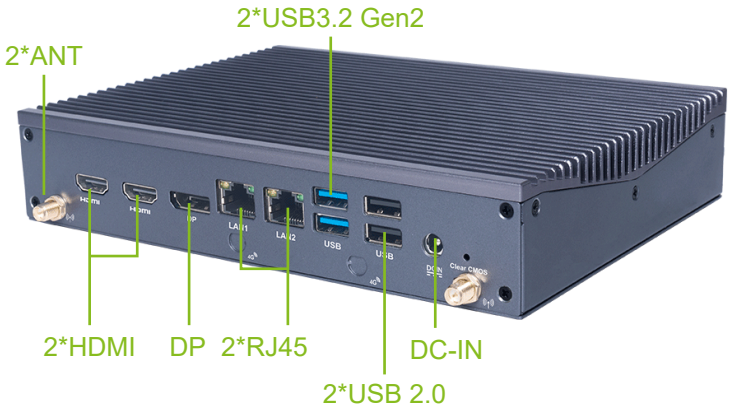
I/O interface

USB	1 x USB Type-C, 4 x USB3.2 Gen2 (10 Gbps), 2 x USB2.0
Serial Port	1 x RS232, 1 x RS232/422/485
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 2 x Connector for 3G/4G (Reserved)

Dimensions and Drawing







Order information

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

Optional items

VESA Mounting	Wall-mounting Kit (JC553)
Wi-Fi/BT Module	**Wi-Fi 5 (802.11ac):** Intel® Wireless-AC 9560 **Wi-Fi 6 (802.11ax)**: Intel® Wi-Fi 6 AX201, **Wi-Fi 6E (802.11ax)**: Intel® Wi-Fi 6E AX210
Mobile Network Module	Quectel® EM12 4G
Operating System License	Windows 11 (64bit)

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