



High Performance Embedded Computer



D612

ALDER LAKE BOOK-SIZE SIGNAGE PLAYER



Intel® Alder Lake-P
Core processors



4 x HDMI (4096 x 2304 @60 Hz)



Support Wi-Fi/BT module
Support 3G/4G/5G module



Support Intel® vPro® technology

CPU

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

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
Remo on	NA
Power Requirement	DC-IN, 19 V/3.42 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% @ 40°C (non-condensing)
Certifications	CE, FCC Class B

Network

Network Controller	1 x Intel i219-LM Gigabit Ethernet
Ethernet Interface	1 x RJ45
Wi-Fi/BT	1 x E-Key (2230) for Wi-Fi/BT Support Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E (CNVi)
Mobile Network	1 x B-Key M.2 (3042/3052) for 3G/4G/5G, 1 x SIM Slot

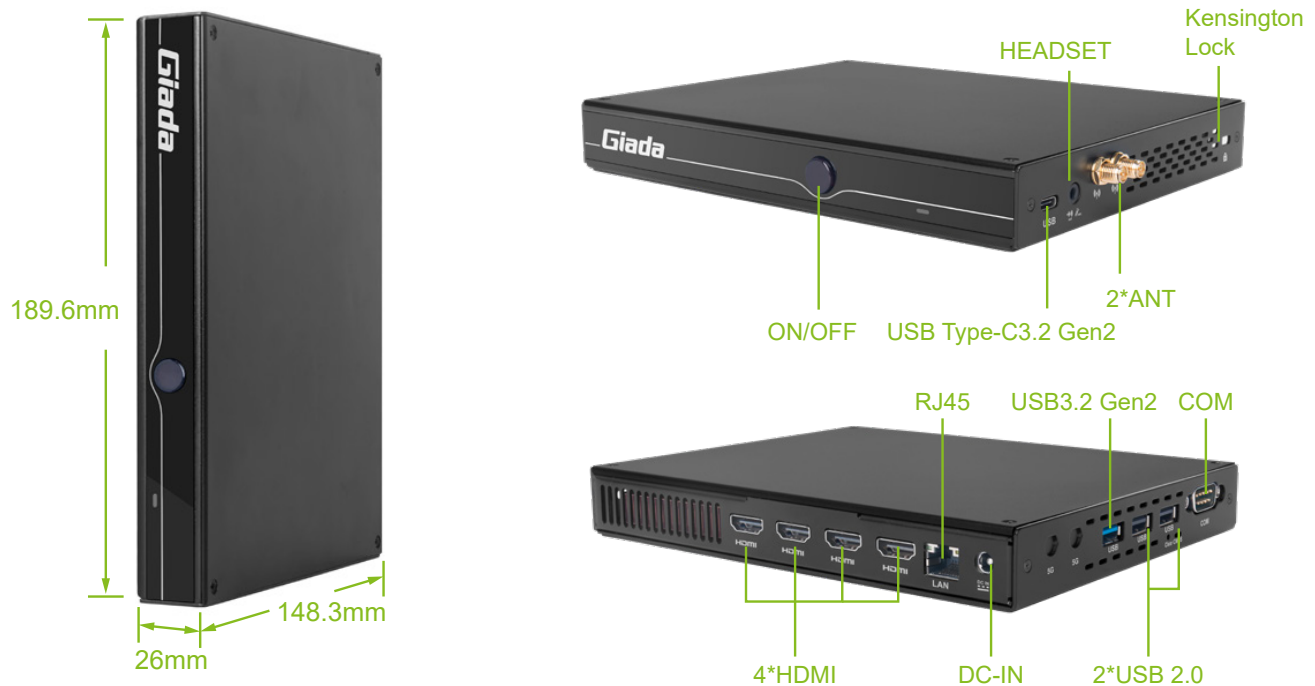
Display

GPU	Intel® UHD Graphics (Core i3) Intel® Iris® X® Graphics (Core i5)
Graphic Engine	DirectX 12.1, OpenGL 4.6, OpenCL 3.0, 8K 60fps 12b 4:2:0 HEVC/VP9/SCC
Display Interface	4 x HDMI (Max.4096 x 2304 @60 Hz)

I/O interface

USB	1 x USB Type-C3.2 Gen2, 1 x USB3.2 Gen2, 2 x USB2.0
Serial Port	1 x RS232
Audio	1 x 2-in-1 Headset (MIC-IN & AUDIO-OUT)
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Connector for Wi-Fi/BT 2 x Connector for 5G (Reserved)

Dimensions and Drawing



Order information

D612-1215U40N0G-GIA	CPU: Intel Core i3-1215U
D612-1235U40N0G-GIA	CPU: Intel Core i5-1235U
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 3165, Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6E AX200, Intel® Wi-Fi 6E AX210 (Gig+)
Mobile Network Module	Quectel® RM500Q 5G, Quectel® EM12 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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