



BQ612

ALDER LAKE HIGH-END RICH-CLIENT



Intel® LGA1700 Socket
12th/13th Gen. Processors



1 x HDMI (Max. 4096 x 2160 @60 Hz)
1 x VGA, Optional: 1 x DP



RTC
Watchdog Timer
Chassis Intrusion



Support NVMe SSD

CPU

CPU	Intel® LGA1700 Socket 12 th /13 th Gen. processors
Frequency	by CPU
Chipset	H610/B660
Processing Units	by CPU
Base Power	≤ 65 W

Network

Network Controller	2 x Realtek RTL 8111H Gigabit Ethernet
Ethernet Interface	2 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/) 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 (2242/2280) for PCIe SSD 1 x 2.5" SATAIII
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	200 mm x 185 mm x 35.5 mm (7.87" x 7.28" x 1.40")
Construction	Metal, Black
Operating System	Windows 10-1909 (64bit) 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

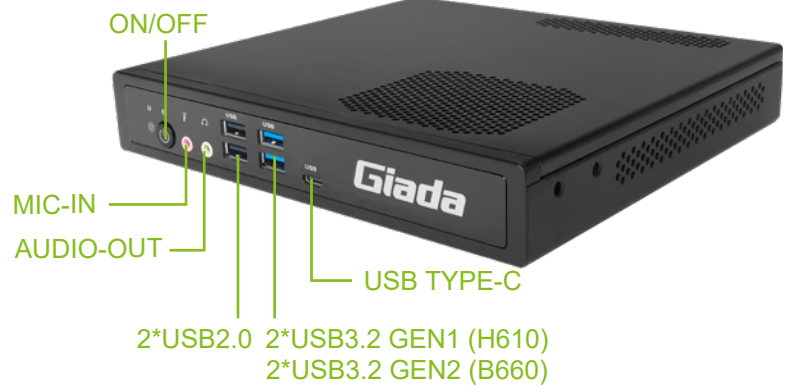
Display

GPU	Intel® UHD Graphics 730/770
Graphic Engine	DirectX 12, OpenGL 4.5, OpenCL 3.0,
Display Interface	1 x HDMI (Max. 4096 x 2160 @60 Hz) 1 x VGA (Max. 2048 x 1536 @60 Hz), DP (Max. 7680 x 4320 @60 Hz) colay with VGA

I/O interface

USB	1 x USB Type-C3.2 Gen1 (H610) 2 x USB3.2 Gen1, 6 x USB2.0 (H610) 1 x USB Type-C3.2 Gen2 (B660) 2 x USB3.2 Gen2, 6 x USB2.0 (B660)
Serial Port	2 x RS232
Audio	1 x MIC-IN, 1 x LINE-OUT
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Connector for Wi-Fi/BT

Dimensions and Drawing



Order information

BQ612-0000040N0G-GIA	CPU: Intel LGA1700 Socket 12th/13th Gen. processors Chipset: H610
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 (JZ200)
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® EM12 4G
Operating System License	Windows 11 (64bit)