



# PC612

## ALDER LAKE OPS WITH MOBILE CPU



Intel® Alder Lake-U/P  
12<sup>th</sup> Gen. processors



JAE support HDMI/DP output  
1 x HDMI (4096 x 2160 @60 Hz)



Support Wi-Fi/BT module



Optional Intel® vPro® technology

### CPU

<b>CPU</b>	Intel® Core™ i3-1215U processor Intel® Core™ i5-1235U processor Intel® Core™ i7-1255U processor
<b>Efficient Frequency</b>	3.30 GHz/3.30 GHz/3.50 GHz
<b>Performance 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>TDP</b>	15 W

### System

<b>System Memory</b>	Up to 32GB, 2 x SO-DIMM DDR4-3200 MHz
<b>Storage</b>	1 x M-Key M.2 (2242/2280) for 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 jack/80pin JAE DC-IN, 12 V~19 V
<b>Dimensions</b>	200 mm x 119 mm x 30 mm (7.87" x 4.69" x 1.18")
<b>Construction</b>	Metal, Black
<b>Operating System</b>	Windows 10 (64bit) /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

### Network

<b>Network Controller</b>	1 x Intel® i219LM Gigabit Ethernet
<b>Ethernet Interface</b>	1 x RJ45
<b>Wi-Fi/BT</b>	1 x E-Key M.2 (2230) for Wi-Fi/BT Support Wi-Fi 5, Wi-Fi 6 (CNVi)
<b>Mobile Network</b>	NA

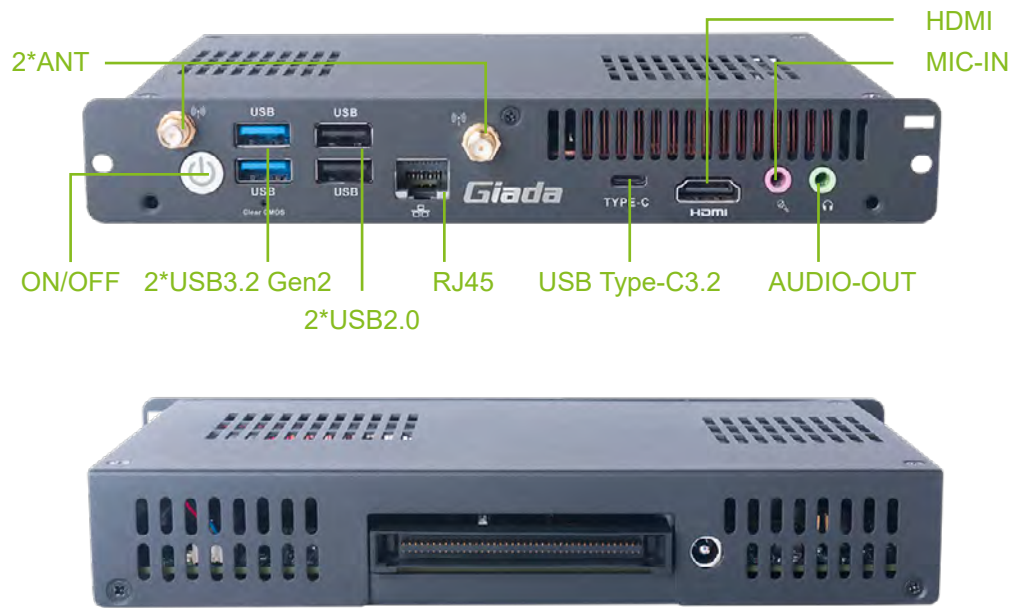
### Display

<b>GPU</b>	Intel® UHD Graphics (Core™ i3 processor) Intel® Iris® Xe Graphics (Core™ i5/i7 processor)
<b>Graphic Engine</b>	DirectX12.1, OpenGL4.6, OpenCL3.0 Intel® Quick Sync Video
<b>Display Interface</b>	1 x HDMI (Max.4096 x 2160 @60 Hz)
<b>JAE Interface</b>	DP/HDMI (Max. 7680 x 4320 @60Hz)

### I/O interface

<b>USB</b>	1 x USB Type-C3.2 Gen2, 2 x USB3.2 Gen2, 2 x USB2.0
<b>Serial Port</b>	NA
<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

## Dimensions and Drawing



## Optional items

<b>Wi-Fi/BT Module</b>	Intel® Dual Band Wireless-AC 3165, Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6E AX200, Intel® Wi-Fi 6E AX210 (Gig+)
<b>Operating System License</b>	Windows 10 (64bit), Windows 11 (64bit)