



High Performance Embedded Computer



AE613

RAPTOR LAKE SEMI-INDUSTRIAL COMPUTER



Intel® Raptor 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
Wide temperature and voltage

CPU

CPU	Intel® Core™ i3-1315U processor Intel® Core™ i5-1335U processor
E-Core Frequency	3.30 GHz /3.40 GHz
P-Core Frequency	4.50 GHz /4.60 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 PCIe4.0 X4 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, 12~36 V, 90 W
Dimensions	200 mm x 150 mm x 50 mm (7.87" x 5.90" x 1.97")
Construction	Metal, Grey
Fanless	Yes
Operating System	Windows 11 (64bit) /Linux Ubuntu (64bit)
Operating Temperature	-20°C ~60°C (-4°F~140°F) @0.7m/s Air Flow ⁽¹⁾
Humidity	10% ~ 90% @45°C (non-condensing)
Storage Temperature	-40°C ~80°C (-40°F~176°F) not include the package
Certifications	CE, FCC Class B, UKCA

Network

Network Controller	1 x Intel i219-LM Gigabit Ethernet 1 x Intel i210-IT Gigabit Ethernet
Ethernet Interface	2 x 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

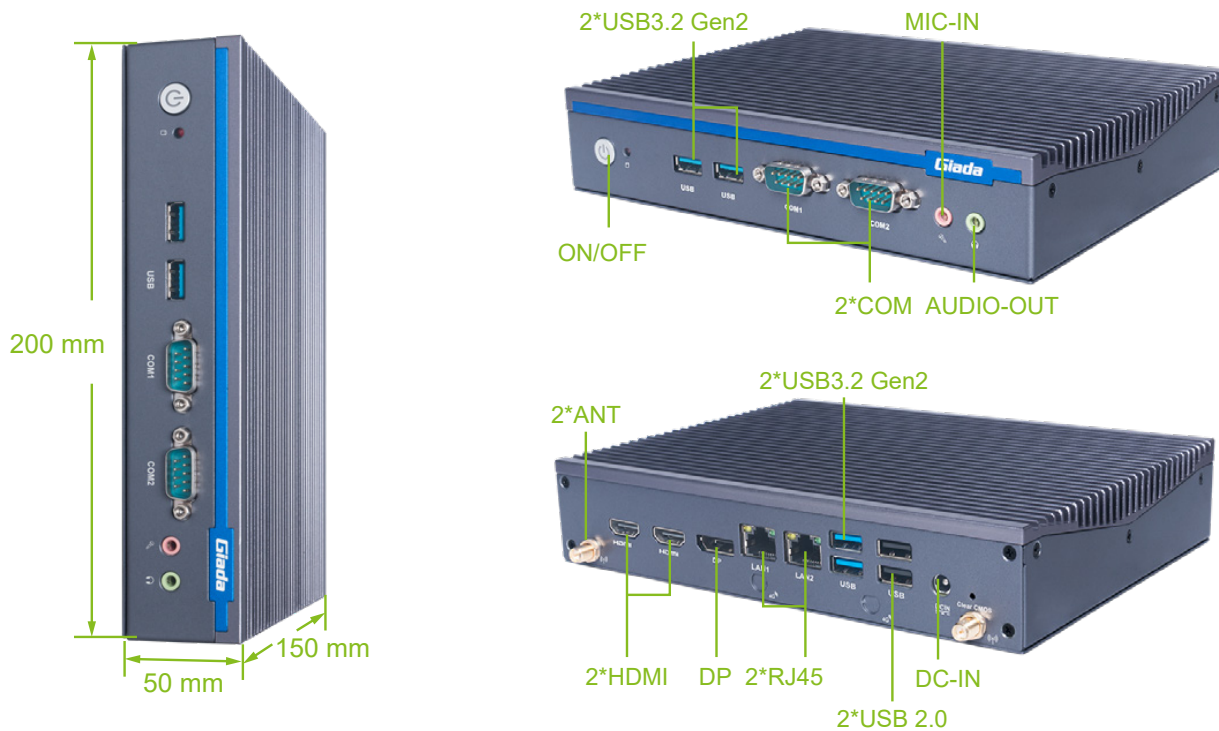
Display

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

I/O interface

USB	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

AF613-1315U40N0G-GIA	CPU: Intel Core i3-1315U
AF613-1335U40N0G-GIA	CPU: Intel Core i5-1335U
Packing List	2 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter
Package	Carton, EPE

(1) If the device operates at ambient temperature above 50 °C for a long time, it is recommended to use wide-temperature memory and storage.

Optional items

Mounting	Wall-mounting Kit (JC283)
Wi-Fi/BT Module	Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6E AX210 (Gig+)
Mobile Network Module	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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