



AE614

RAPTOR LAKE-U REFRESH SEMI-INDUSTRIAL COMPUTER



Intel® Raptor Lake-U Refresh
Core processors



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



Fanless design
Wide temperature and voltage

CPU

| | |
|-------------------------|--|
| CPU | Intel® Core™ 3 processor 100U Intel® Core™ 5 processor 120U |
| Chipset | SoC |
| Processing Units | 6 Cores / 10 Cores |
| Threads | 8 / 12 |
| Base Power | 15 W / 15 W |

Network

| | |
|---------------------------|--|
| Network Controller | 1 x Intel® i219-LM Gigabit Ethernet 1 x Intel® i210-IT 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 96 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 |
| Power Requirement | DC-IN, 12~24V, 90 W |
| Dimensions | 200 mm x 150 mm x 50 mm (7.87" x 5.90" x 1.97") |
| Construction | Metal, Grey |
| Cooling System | Fanless, passive cooling |
| 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 |

Display

| | |
|--------------------------------|--|
| GPU | Intel® Graphics |
| 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 | 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



Optional items

| | |
|---------------------------------|---|
| Mounting | Wall-mounting Kit (JC553) |
| Wi-Fi/BT Module | Wi-Fi 5: Intel® Wireless-AC 9560 Wi-Fi 6: Intel® AX201 Wi-Fi 6E: Intel® AX210, Intel® AX211 |
| Mobile Network Module | LTE Cat4: Quectel® LTE EM06 |
| Operating System License | Windows 11 (64bit) |

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HIGH-DEFINITION MULTIMEDIA INTERFACE

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