

Intel® Alder lake-S/Raptor lake-S CPU, 3*LAN, 6*USB3.2, 8K DP+4K , HDMI PCIe5.0 X16+PCIe4.0 X4, 2*2.5" SATA bay, 1000W PSU DC IN 12V.

Key Features

- Intel® 12th /13th Gen Alder lake-S/Raptor lake-S CPU
- Intel® Q670 Chipset
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*DP+1*HDMI +1*VGA, three independent displays
- 2*Intel® I226V Gigabit LAN, 1*Intel® I219LM Gigabit LAN, support iAMT12.0
- 1*PCIe X16 (X16 signal)+1*PCIe X16 (X4 signal)
- 2*2.5" SATA3.0 Bays, 1*M.2 2280 PCIeX4 NVMe
- Support TPM2.0 and iVpro technology
- Fanless cooling for CPU , AI/GPU card with efficient fan cooling design
- Support 450W GPU or dual 75W/150W AI acceleration cards
- 1000W PSU DC IN 12V, and wide temperature fanless AC-DC power adapter with PFC



Specification

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| Processor | Intel® 12th-Gen Alder lake-S or 13th-Gen Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron |
| Memory | 2*262-Pin SODIMM, dual channel DDR5 4800MHz, up to 64GB |
| Storage | 2*2.5 "SATA3 easy-plug SATA bays, larger capacity thickness15mm HDD, support Raid0/1; 1*M.2 2280 M- key(Gen4, PCIeX4 signal), support NVMe ultra-high speed storage; 1*full size mSATA, with SATA3.0 signal, max 6Gbps |
| Chipset | Intel® Q670 PCH |
| Graphics | Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0, DP max res. 7680*4320@60Hz, HDMI max res. 4096*2160@60Hz, VGA max res. 1920*1200@60Hz, support three independent displays |
| Front I/O Interface | 3*RJ45 Gig-LAN; 4*USB3.2(gen2.0 10Gbps, Type A); 2 *USB3.2(gen1.0 5Gbps, Type A); 2*RS232/422/485(via BIOS, DB9 male); 1*VGA+1*DP+1*HDMI; 2*USB2.0(pin header inside); 16bit DIO (2*10pin header inside); 1*F_Audio (pin header inside) |
| Extensions | 1*Full size Mini PCIe (PCIeX1+USB signal) with SIM slot, for 4G LTE modem or PCIe signal I/O module 1*full size mSATA, with SATA3.0 signal, max 6Gbps 1*M.2 B-Key 3052 (PCIeX1+USB signal) with a SIM slot, support 5G NR module 1*M.2 2280 M-Key (Gen4, X4 signal, from PCH), support NVME high-speed SSD or PCIe signal module 1*PCIe X16 (Gen5, X16 signal, from CPU), 1*PCIe X16 (Gen4 X4 signal, from PCH) |
| Watchdog | Watchdog timeout programmable via software 1 to 255 second |
| Operating System | Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7 |
| Operating Temp | -20-c to 65 -c |
| Storage Temp | -40°C~85°C |
| Relative Humidity | 10~95%@40°C, Non-condensing |
| Weight/Dimension | (W*H*D) : 195*374.7*254.8 mm |
| Install | Desktop Mounting, with anti-vibration rubber pads |
| Certification | Vibration, Shock, CE, FCC |

Ordering Information

iBOX-772

Fanless Embedded PCs Intel® Core 12th/13th/14th Gen Processors with Multiple Expansion slots options