

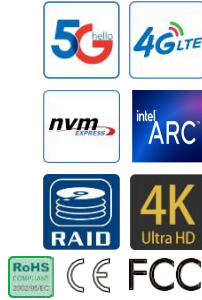
BRAV-7722

Intel® 12th/13th/14th Gen Core i9/i7/i5/i3/Pentium/Celeron CPU,
4*DDR5, 3*LAN, 4*USB3.2, 2*COM, 4*HDMI, 1*Mini PCIe, 2*M.2 ,
1*2.5" SATA, 1*MXM slot, DC-IN 19V

JHCTECH

IoT Computer
Connecting the Data

Edge Computing System
BARV Series



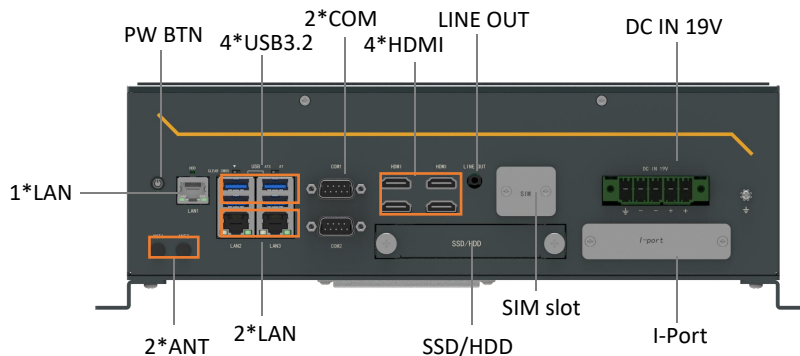
Key Features

- Intel® 12th/13th/14th Gen Core i9/i7/i5/i3/Pentium/Celeron LGA1700 Socket CPU
- Intel® Q670 Chipset
- Dual-Channel 4*DDR5 4800/5600MHz, up to 32GB
- 3*LAN, 4*USB3.2, 2*COM, 1*Line out
- 4*HDMI, Dual Integrated Graphics, 2 Independent Discrete GPUs
- 1*M.2 B-key support 4G LTE, 5G NR
- 1*M.2 E-key support BMC module
- 1*M.2 M-key, 1*mSATA and 1*2.5" SATA Bay
- 1*MXM3.1, support Intel Arc A750E and A770 series GPU
- DC 19V DC power supply interface, with short circuit, over voltage and over current protection

Product Overview

BRAV-7722 is a high performance AI edge computing system equipped with Intel® Alder lake-S/Raptor lake-S/Raptor lake-S Refresh series processors with Q670 chipset. CPU+GPU dual processor high-performance multi-network port multi-display multi-IO function, optional support BMC module to achieve remote management, DC 19V DC power supply interface, used in intelligent transportation, machine vision, unmanned driving, intelligent security, digital medical and other fields.

IO Layout

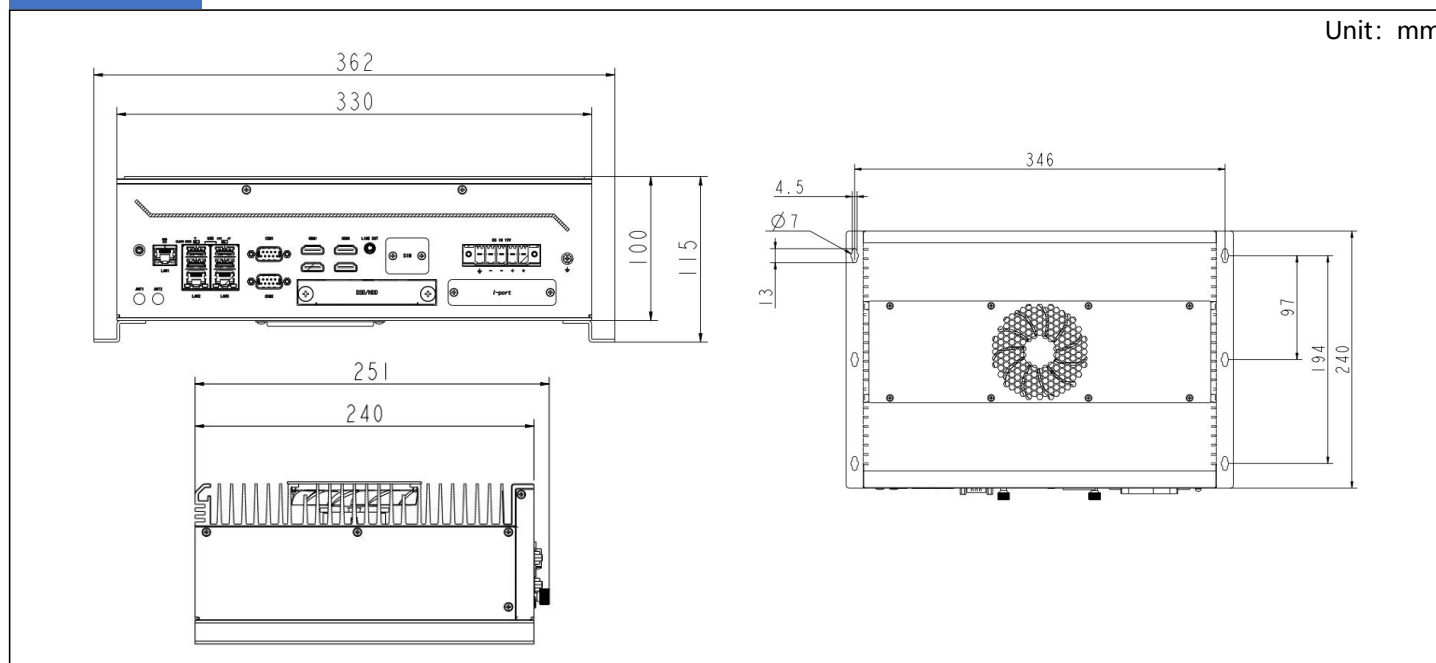


Product SPEC

CPU+PCH	Intel® 12th/13/14th-Gen Alder lake-S or Raptor lake-S or Raptor lake-S Refresh Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® Q670 PCH
Memory	Dual channel 4*DDR5 4800/5600MHz, up to 192GB
Expansion	1*Mini-PCIe Full size,SATA and PCIe signal automatic detection and recognition 1*M.2 Type 2230 E-key, support BMC module 1*M.2 Type 3042/52 B-key, PCIeX1, USB2.0+SIM, support 5G NR compatible with 4G LTE 1*M.2 2280 M-Key, support NVMe high-speed SSD or PCIe signal module 1*MXM3.1, PCIeX16, power supply up to 190W, support all MXM GPU modules and AI acceleration cards on the market with power consumption below 190W
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0, HDMI max res. 7680*4320@60Hz
LAN	2*Intel I210AT chip, support 10/100/1000Mbps adaptive; 1*Intel I210AT chip, optional support for IPMI remote management (with B2400 BMC module)
Storage	1*2.5" HDD/SSD SATA3 6.0Gbps, can support large capacity 15mm thickness HDD, up to 6G bit/second transmission speed; 1*M.2 2280 M-key(PCIeX4 signal), support NVMe ultra-high speed storage; 1*mSATA(optional with Mini PCIe)
I/O Interface	Front I/O: 3*LAN (Rj45); 4*USB3.2(Type A), max10Gbps transport speed; 2*HDMI(CPU graphics), 2*HDMI(MXM GPU) , 1*SIM card slot; 2*RS232/422/485, can select mode via BIOS (DB9 Male); 1*Line out (3.5mm phone jack); Internal I/O: 1*RS232; 2*USB2.0(2*4 header); 2*SATA3+SATA power
I-port	Support internal1*RS232、2*USB2.0 or M.2/Mini PCIe and ect. expansion module
LED	1*Power LED(on power button), 1*HDD LED
Control SW	1*Power button w/LED, AT/ATX dip, Clear Cmos dip
Power Supply	DC 19V power supply interface, 5-pin 7.62mm phoenix term, with short circuit, over voltage and over current protection, Maximum output power: 500W TDP: TBD

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Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
OS Support	WIN11/WIN10/Linux
Structure	Aluminum extruded profile heat dissipation shell, SGCC frame, CPU aluminum fan heat dissipation, the GPU fan + VC + soaking plate Fin aluminum radiator
Color	Granite gray + Black
Mounting	Desktop Mounting, with anti-vibration rubber pads
Dimension	(W*D*H): 362*240*115mm (With tabletop mounting bracket) ; 330*240*100mm (Without mounting bracket)
Net weight	6.70kg
Operating temperature	-20°C ~ 60°C (35W CPU), with airflow
Storage Temperature	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working (SSD); 1grms/5~500Hz/random/in working (HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certification/EMC	CE/FCC Class A

Dimension



Ordering Info.

Model No.	Introduction
BRAV-7722/S001	Edge Computing system, Intel®12th Alderlake-S/13th Raptor lake-S/14th Raptor lake-S Refresh LGA1700 CPU, Q670 PCH, 4*DDR5 UDIMM, 4*HDMI, 1*Audio out, 3*LAN(One is optional as IPMI), 4*USB3.2, 2*RS232/422/485, 1*I-Port, 1*2.5" SSD/HDD, 1*Mini PCIe(optional mSATA), 1*M.2 B- Key, 1*M.2 M-Key, 1*M.2 E-Key(BMC Interface), DC-IN 19V.
MXM3.1 GPU	Intel Acr A750E/A770 ECM MXM GPU
ECB-327	Chipsea B2400 Chip, M.2 2230 E-Key BMC Module
PA-120DC19	AC/DC power adapter, DC19V/6.32A,120W
PA-550DC19	AC/DC power adapter, DC19V@28.95A ,550W