

Edge Computing system, BRAV Series

BRAV-7521

Intel® Coffee Lake-R LGA1151 CPU, 3*LAN, 6*USB3.1, 1*VGA, 2*DP, 2*4K Displays, 4*PCIe expansion, 4*SATA3, Support 2*350W GPU.

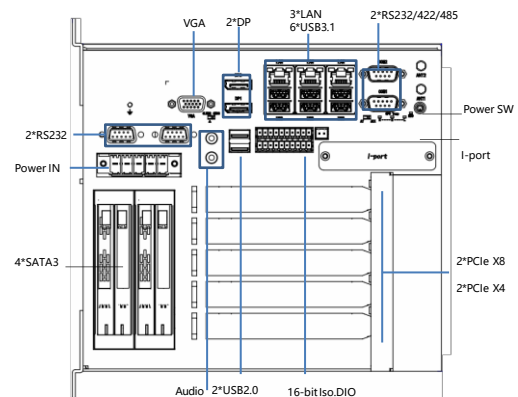


Key Features

- Intel® Xeon® E or 9th/8th-Gen Core™ i7/i5/i3 processor
- Intel® Q370/C246 Chipset
- Large memory, 4*DDR4 up to 128G ECC/non-ECC
- UHD dual 4K and 3 independent displays, 2*DP+ 1*VGA
- 3* Gig-LAN ,Opt. Multi-ch 10Gig-SFP
- Multi-ch PCIe standard slot, supports multiple high - speed extension interface modules
- Super storage configuration,4*SATA3.0, 1*M.2 2280 M-Key
- Support AMT12.0, Intel® iVpro and optional TPM2.0
- CPU fanless, AI/GPU efficient fan cooling design
- Super deep learning ability, support dual 350W GPU/ 75W PGPU/AI acceleration card



BRAV-7521 is a Workstation-grade Edge Computing system. It powered by Intel® Coffee Lake-R series processor, Intel® Q370/C246 Chipset, 4*DDR4 2666/2400MHz dual channel memory, up to 128GB, 2*DP1.2+ 1* VGA, 3*GbE LAN, 6*USB3.1, 1*Mini PCIe supports 4G/WiFi/BT, 1*M.2 E-Key & SIM, 1*M.2 B-key, support 5G, 1*M.2 M-Key, support NVMe. 4*2.5" SATA3 HDD/SSDtray, support RAID 0/1/5/10, support multiple PCIe expansion, flexible to meet application requirements. Workstation level system performance, rich expansion flexibility, industrial level product design which is very suitable for industrial automation, AI edge computing, small intelligent workstations, multimedia service systems, high-precision machine vision and so on.



SPEC.

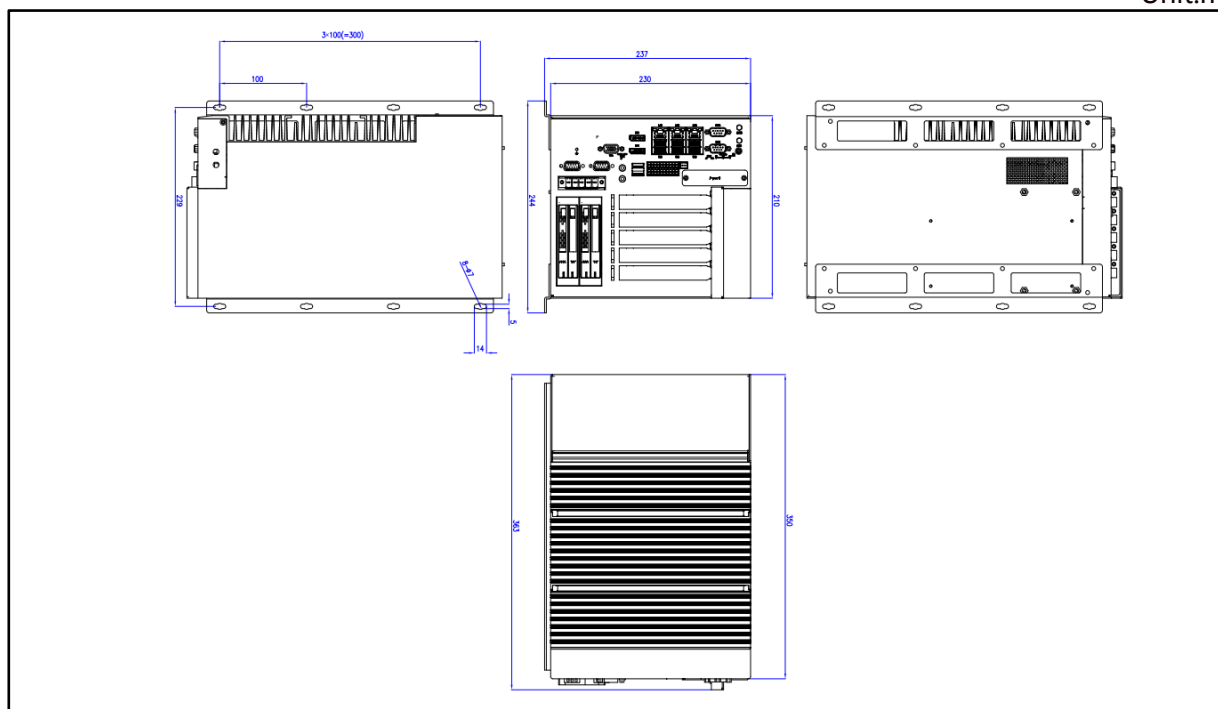
System	CPU	Intel® Xeon® E or 9th/8th-Gen Core™ i7/i5/i3 LGA1151 processor, up to 8C/16T
	Chipset	Intel® Q370(BRAV-7521/S001), Intel® C246(BRAV-7521/S002)
	System Memory	4*260-Pin SODIMM, dual channel DDR4 2666/2400MHz, up to 128GB
	Expansion	1*Full size Mini PCIe with PCIe + USB signal and SIM slot, support 4G LTE/Wifi/BT wireless module 1*M.2 E-Key 2230 & SIM slot 1*M.2 B-Key 3052, support 5G 1*M.2 2280M-Key(PCIeX4signal) 2*PCIe X8 (in X16 slot), support 2*350W GPU (the length of the GPU must be less than 300mm) 2*PCIe X4 (in X16 slot), support 2*75W AI Module (the length of the module must be less than 300mm)
	Intel Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1, or PCIeX16 GPU DP1.2 max. res. 4096*2304@60Hz, VGA max. res. 1920*1200@60Hz, 3 independent displays
	Audio	Optional support Realtek ALC662VD controller, Audio out and MIC, support 5.1 channel
	LAN	2*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps 1*Intel I219LM PCIe Gig. Ethernet, support iAMT12.0
	Storage	4*2.5" SATA3 SSD tray, support RAID0/1/5/10 1*M.2 2280 M-key, Support NVMe storage
	DIO	16-bit Iso. DIO, 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)
	I-Port	Optional 16-bit GPIO, USB2.0 or Mini PCIe and M.2 I/O ports(such as serial ports)
	I/O ports	3*RJ45 Gig-LAN, 6*USB3.1; 2*USB2.0 16-bit Iso. DIO, 2*RS232/422/485, 2*RS232 Audio-out and 1*MIC 1*VGA+ 2*DP
	LED	1*PowerLED, 5*HDDLED
	Control SW	1*Power button, 1*ATX Power SW, 1*Clear CMOS SW
	Power Supply	DC 12V input, 5-pin Term. Consumption: TDP 12V/47A (I7-8700 CPU 32GB DDR4 2*2080TI GPU)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
	OS Support	Windows 10 Enterprise & IOT Enterprise (64-bit) (CFL-R) Windows Server 2016 (Intel® Xeon®E) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)

*All specifications and photos are subject to change without notice.

Mechanical	Structure	Aluminum-magnesium alloy, SGCC frame
	Color	Granite gray + Black
	Mounting	Desktop Mounting
	Dimension	(W*H*D) : 230*350*210mm
	Netweight	8.3KG
Environmental	Operating temperature	-20°C~60°C airflow ,
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%@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 ClassB

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
BRAV-7521/S001	Edge Computing system, Intel® Coffeelake LGA1151 CPU, Q370 PCH, 4*DDR4, 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 1*Mini PCIe, M.2 E-Key, M.2 B-Key, 2*PCIe X8, 2*PCIe X4, 1*VGA, 2*DP, Audio out, Mic, 16-bit Iso. DIO, 4*3.5" SATA, 1*M.2 2280 M-Key, DC 12V.
BRAV-7521/S002	Edge Computing system, Intel® Coffeelake LGA1151 CPU, C246 PCH, 4*DDR4, 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 1*Mini PCIe, M.2 E-Key, M.2 B-Key, 2*PCIe X8, 2*PCIe X4, 1*VGA, 2*DP, Audio out, Mic, 16-bit Iso. DIO, 4*2.5" SATA, 1*M.2 2280 M-Key, DC 12V.
SE-1000DC12	C/Dcswitch power supply, DC12V@83.3A ,180-264V AC in, DC 12V out, 1000W
Recommend GPU /AI Module	Support 2*350W GPU module, 2*75W AI accelerate module, the length of the expansion module must be less than 300mm

Support CPUList

Series	Intel® Xeon®		Intel® Core™				Intel® Pentium®		Intel® Celeron®	
	Model	Core	Model	Core	Model	Core	Model	Core	Model	Core
9 th Gen	E-2278G	8C/16T	I7-9700	8C/8T	I7-9700T	8C/8T	G5500	2C/4T	G4950	2C/2T
	E-2224G	8C/16T	I5-9500	6C/6T	I5-9500T	6C/6T				
			I3-9100	4C/4T	I3-9100T	4C/4T				
8 th Gen	E-2176G	6C/12T	I7-8700	6C/12T	I7-8700T	6C/12T	G5400	2C/4T	G4930	2C/2T
	E-2124G	4C/4T	I5-8500	6C/6T	I5-8500T	6C/6T				
			I3-8100	4C/4T	I3-8100T	4C/4T				

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