

Edge Computing system, BRAV Series

BRAV-7501

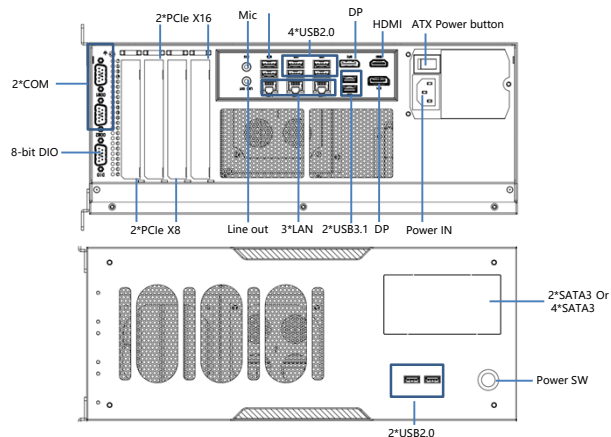
Intel® Coffee Lake-R LGA1151 CPU, 3*LAN, 4*USB3.1, 1*HDMI, 2*DP, 3*4K Displays, 4*PCIe expansion, 2/4*SATA3, ATX 600W Power.



BRAV-7501 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* HDMI 1.4 b, 3*GbE LAN, 4*USB3.1, 1*Mini PCIe supports 4G /WiFi/BT.1*M.2 M-Key, support NVMe. S001 with 2*3.5" SATA3 bay, S002 with 4*2.5" SATA3 HDD/SSD tray, 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, visual control and so on.

Key Features

- Intel® Xeon® E or 9th/8th-Gen Core™ i7/i5/i3 processor
- Intel® Q370/C246 Chipset
- 4*DDR4 2400/2666MHz DIMM, Up to 128GB
- 2*DP+ 1*HDMI, Support 3 independent displays
- 3*LAN, 4*USB3.1, 2*COM, 8-bit DIO
- 1*PCIeX16 or 2*PCIeX8 + 2*PCIeX4 expansion
- 1*Mini PCIe & SIM slot, support 4G/WiFi/GSM/BT
- 2/4*SATA3, 1*M.2 2280 M-Key(NVMe)
- Support AMT12.0, Intel® iVpro and TPM2.0
- ATX 600W Power supply



SPEC.

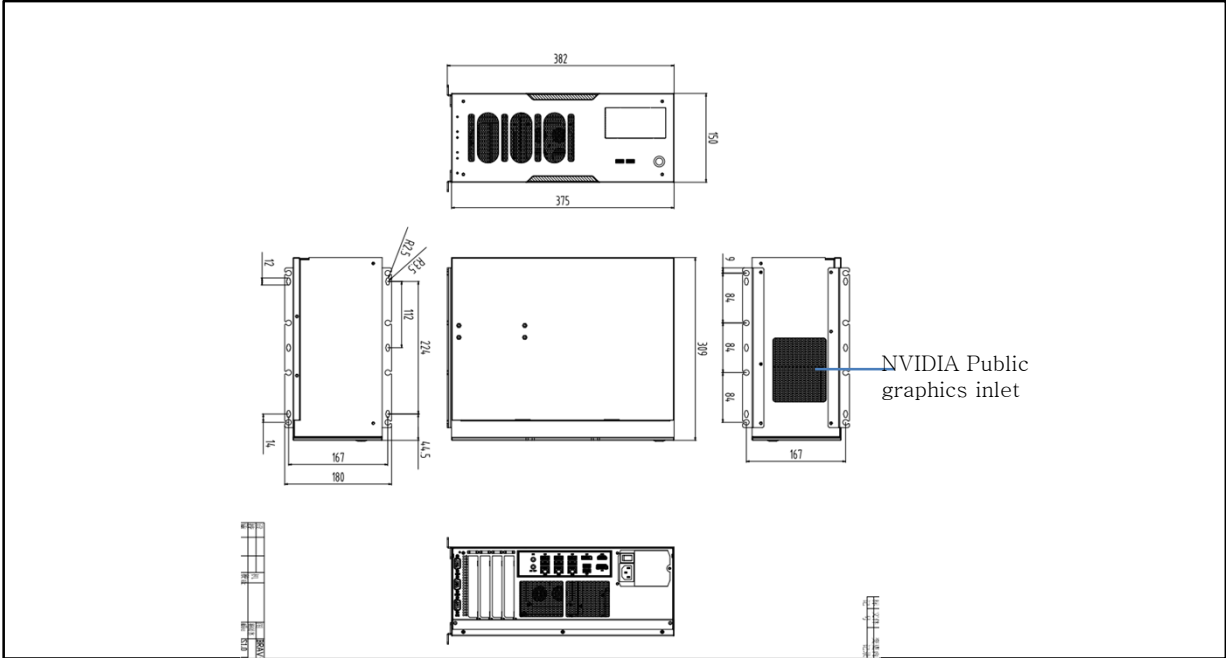
System	CPU	Intel® Xeon® E or 9th/8th-Gen Core™ i7/i5/i3 LGA1151 processor, up to 8C/16T
	Chipset	Intel® Q370(BRAV-7501/S001) , Intel® C246(BRAV-7501/S002)
	System Memory	4*288-Pin DIMM, dual channel DDR4 2666/2400MHz, up to 128GB
	Expansion	1*Full size Mini PCIe with PCIe + USB signal and SIM slot, support 4G LTE/Wifi/BT wireless module 2*PCIe X16 slot(Gen3, support 1*PCIe X16, If another slot is also connected to the device, it will automatically become 2*PCIe X8) , Support up to NVIDIA 2080Ti public graphics 2*PCIe X8 slot (Gen3, 2*PCIe X4 signal) 1*M.2 2280 M-Key(Gen3, PCIeX4signal)
	Intel Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1, DP1.2 max. res. 4096*2304@60Hz, HDMI1.4b max. res. 3840*2160@30Hz, 3 independent displays
	Audio	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	2*3.5" SATA3 SSD bay (BRAV-7501/S001) 4*2.5" SATA3 SSD tray, support RAID0/1/5/10 (BRAV-7501/S002) 1*M.2 2280 M-key, Support NVMe storage
	DIO	8-bit DIO, TTL signal, programmable input and output
	I/O ports	3*RJ45 Gig-LAN 4*USB3.1 Type A; 6*USB2.0 Type A; 1*USB2.0 Type A(inside) 8-bit DIO (DB9), 2*RS232/422/485(DB9) Audio-out and 1*MIC (3.5mm phone jack) 1*HDMI + 2*DP
	LED	1*Power LED, 4*HDD LED (BRAV-7501/S002)
	Control SW	1*Power button, 1*ATX Power button
	Power Supply	24-pin ATX/8-pin ATX 12V, 600W Power supply Consumption: 374W(I7-8700, 16GB DDR , 2*4TB SATA HDD, GTX-1660 Graphics)
	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, Rack Mounting
	Dimension	(W*H*D) : 150*309*375mm
	Net weight	8.14Kg
Environ-mental	Operating temperature	-20°C~50°C , SSD, 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 Class B

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
BRAV-7501/S001	Edge Computing system, Intel® Coffeelake LGA1151 CPU, Q370 PCH, 4*DDR4, 3*LAN, 4*USB3.1, 7*USB2.0, 2*COM, 1*Mini PCIe, 1*PCIe X16(or 2*PCIeX8), 2*PCIe X4, 1*HDMI, 2*DP, Audio out, Mic, 8-bit DIO, 2*3.5" SATA3 bay, 1*M.2 2280 M-Key, ATX 600W Power
BRAV-7501/S002	Edge Computing system, Intel® Coffeelake LGA1151 CPU, C246 PCH, 4*DDR4, 3*LAN, 4*USB3.1, 7*USB2.0, 2*COM, 1*Mini PCIe, 1*PCIe X16(or 2*PCIeX8), 2*PCIe X4, 1*HDMI, 2*DP, Audio out, Mic, 8-bit DIO, 4*2.5" SATA3 tray, 1*M.2 2280 M-Key, ATX 600W Power
MLU270-F4	寒武纪AI加速卡, PCIeX16全长全高主动卡, DDR4 16GB(ECC), 128TOPS(INT8), 150W
MLU270-S4	寒武纪AI加速卡, PCIeX16半长半高被动卡, DDR4 16GB(ECC), 128TOPS(INT8), 70W
UHP-500DC12	AC/DC开关电源, DC12V@41.7A ,90-264V AC输入, DC 12V输出, 宽温无风扇, 500W
SE-600DC12	AC/DC开关电源, DC12V@50A ,180-264V AC输入, DC 12V输出, 600W
SE-1000DC12	AC/DC开关电源, DC12V@83.3A ,180-264V AC输入, DC 12V输出, 1000W
AC-140	8路隔离输入和8路功率继电器输出接线端子板, DC 12V供电, 源信号为16位TTL信号GPIO

Support CPU List

Series	Intel® Xeon®		Intel® Core™						Intel® Pentium®		Intel® Celeron®	
9 th Gen	E-2278G	8C/16T	I7-9700K	8C/8T	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	I7-8700K	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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