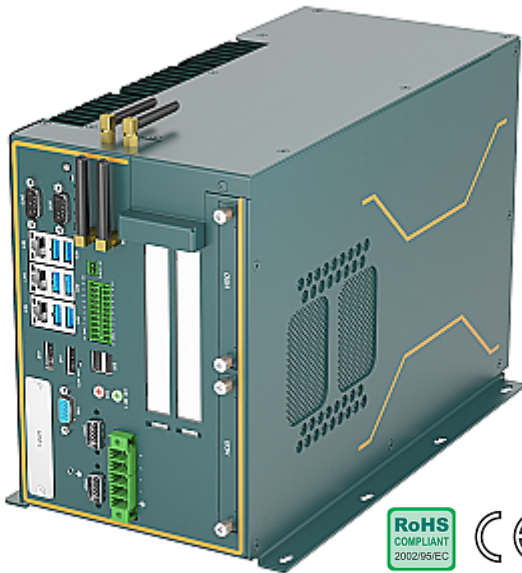


BRAV-7520

Edge AI Workstation

with Intel® Coffee Lake-R CPU, 3x GbE, 8x USB, support 350W GPU/75W AI card



- Intel® Xeon® E or 8th/9th Gen Core™ i3/i5/i7 CPU
- Intel® Q370/C246 Chipset
- 4x DDR4 2666/2400 MHz SO-DIMM, up to 128GB
- 2x DP, 1x VGA, UHD dual 4K
- 3x GbE, 6x USB 3.1, 4x COM
- miniPCIe with SIM slot, support 4G LTE/Wifi/BT
- 3x M.2: Key E with SIM card slot, Key B support 5G, Key M PCIe x4
- 2x 2.5" SATA3.0
- 12V DC
- CPU fanless, AI/GPU efficient fan cooling design
- Support AMT12.0, Intel vPro® and TPM2.0
- Super deep learning ability, support 350W GPU / 75W AI acceleration card



	Items	Descriptions
System	CPU	Intel® Xeon® E or 8th/9th Gen Core™ i3/i5/i7 LGA1151 CPU, up to 8C/16T
	Chipset	Intel® Q370 (BRAV-7520/S001), Intel® C246 (BRAV-7520/S002)
	Memory	4x DDR4 SO-DIMM, 2666/2400 MHz, up to 128GB
	Expansion	1x full miniPCIe with PCIe & USB signal and SIM slot, support 4G LTE/WiFi/BT module 1x M.2 Key E 2230 with SIM slot 1x M.2 Key B 3052, support 5G 1x M.2 2280 Key M (PCIe x4 signal) 1x PCIe x16, support 350W GPU (the length of the GPU must be less than 300mm) 1x PCIe x4 (in x16 slot), support 75W AI Module (the length of the module must be less than 300mm)
	Graphics	Intel® UHD Graphics, supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe x16 GPU 1x VGA max resolution 1920x1200@60Hz 2x DP 1.2 max resolution 4096x2304@60Hz
	LAN	2x Intel® I210AT PCIe GbE, 10/100/1000Mbps 1x Intel® I219LM PCIe GbE, support iAMT 12.0
	Storage	2x 2.5" SATA 3.0 SSD tray, support RAID0/1 1x M.2 2280 Key M, support NVMe SSD
	Digital IO	16-bit iso. Digital IO: 8-bit iso. DI (High:5-24V, Low:0-1.5V) and 8-bit iso. DO (200mA)
	I/O Ports	1x VGA, 2x DP 3x RJ45 Gb LAN 6x USB 3.1, 2x USB2.0 2x RS232/422/RS485 2x RS232 1x Audio out, 1x Mic
	I-port	1x I-port reserved interfaces, can support optional 16-bit GPIO, USB 2.0 or miniPCIe and M.2 I/O ports (such as serial ports)
	LED	1x Power LED, 1x HDD LED
	Control SW	1x Power button, 1x ATX Power SW, 1x Clear CMOS Select SW
	Power Supply	DC 12V Input, 5-pin terminal connector Consumption: 12V/27A (i7-8700 CPU 32GB DDR4 1x 2080TI GPU)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
	OS Support	Windows 10 Enterprise & IoT Enterprise (64 bit)(CFL-R), Windows Server 2016 (Intel® Xeon® E); Linux: SUSE, Ubuntu; Redhat Enterprise 1.2 (Kernel 4.14) (CFL-R); Wind River VxWorks 7 (CFL-R)
Mechanical	Structure	Aluminum-magnesium alloy, SGCC frame
	Color	Granite gray and Black
	Mounting	Desktop mounting
	Dimension (WxHxD)	230 x 350 x 160mm
	Net weight	7.5kg

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	Items	Descriptions
Environmental	Operating Temperature	-20°C ~ 60°C - with wide operating temperature SSD, airflow
	Storage Temperature	-40°C ~ 85°C
	Storage Humidity	10~90%@40°C, non-condensing
	Vibration	5 grms/5~500Hz/random/in working (SSD); 1 grms/5~500Hz/random/in working (HDD)
	Shock	50g peak acceleration (11ms duration) (SSD); 20g peak acceleration (11ms duration) (HDD)
	EMC	CE / FCC Class B

Ordering Information

Part No.	Chipset	Descriptions
BRAV-7520/S001	Intel® Q370	Edge AI System, Intel® Coffee Lake-R LGA1151 CPU, 4x DDR4, 3x LAN, 6x USB3.1, 2x USB2.0, 4x COM, 1x mini PCIe, M.2 Key E, M.2 Key B, 1x PCIe x16, 1x PCIe x4, 1x VGA, 2x DP, Audio out, Mic, 16-bit iso. DIO, 2x 2.5" SATA, 1x M.2 2280 Key M, DC 12V
BRAV-7520/S002	Intel® C246	
UHP-500DC12	AC/DC switching power supply, DC12V@41.7A, 90-264V AC in, DC 12V out, wide temp fan, 500W	
SE-600DC12	AC/DC switching power supply, DC12V@50A, 180-264V AC in, DC 12V out, 600W	
Recommend GPU/AI module	Support 350W GPU module or 75W AI accelerate module, the length of the expansion module must be less than 300mm	

Supported CPUs

Series	Intel® Xeon®		Intel® Core™				Intel® Pentium®		Intel® Celeron®	
	Model	Core/Threads	Model	Core/Threads	Model	Core/Threads	Model	Core/Threads	Model	Core/Threads
9th Gen	E-2278G	8C/16T	i7-9700	8C/8T	i7-9700T	8C/8T	G5500	2C/4T	G4950	2C/2T
	E-2224G	4C/4T	i5-9500	6C/6T	i5-9500T	6C/6T				
8th 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				
			i3-9100	4C/4T	i3-9100T	4C/4T				
			i3-8100	4C/4T	i3-8100T	4C/4T				

Dimension

Unit: mm

