



Industrial PC

Spectra WS 6000 Series

High End 19" Workstation

4U workstation with 7 slots - expansion option for PCIe cards and I/O blends.

Thanks to 4 housing fans and a power supply unit with more than 1000W, up to 6 Nvidia RTX graphics cards can be used for your image processing applications. PCIe 5.0 and 10Gbit LAN guarantee the highest data transfer rates and up to 4x m.2 NVME SSDs for the highest possible data processing speed.

The system supports remote maintenance via IPMI interface and hardware-based protection of your application through modern security technologies of the Intel Xeon processor as well as ECC error correction in the memory.

Features

- 4U Industrial PC
- 1300/1600 Watt AC Industrial power supply
- Workstation Mainboard with up to 6 PCIe x16 Expansion slots
- 4th Generation Intel® Xeon® W Processors

Spectra WS 6000 Series

Technical Data

Model	Spectra WS 6000 Entry 12	Spectra WS 6000 Entry 16	Spectra WS 6000 Pro 20	Spectra WS 6000 Pro 28
Article n°	173455	173456	173457	173458

Full System Configuration

Processor	Xeon W5 2455X 12 Cores, 200-240W	Xeon W5 2465X 16 Cores, 200-240W	Xeon W7 3445 20 Cores, 270-324W	Xeon W7 3465X 28 Cores, 300-360W
RAM	64GB ECC	128GB ECC	128GB ECC	256GB ECC
SSD	1TB NVME industrial grade SSD	1TB NVME industrial grade SSD	1TB NVME industrial grade SSD	1TB NVME industrial grade SSD
Graphics Card	IPMI, optional	IPMI, optional	IPMI, optional	IPMI, optional
Operating System	Microsoft® Windows® 11 IoT Enterprise LTSC 2024 Hi-End incl. USB-Recovery-Stick with Acronis True Image			
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C

System

Processor Socket	LGA4677 for 4th Generation Intel® Xeon W Processors
Chipset	Intel® W790
Memory Socket	DDR5 ECC registered (up to 4096 GB)

Controllers, Connectors & Interfaces

Interfaces external	- 4x USB 3 10Gbit - 1x COM / RS232 - 1x 10Gbit LAN (Marvell AQC113) - 1x 1Gbit LAN (Intel i210AT, IPMI) - USB C 20 Gbit - 6x Audio rear, 2x front	- 2x USB 2 - 4x USB 3 10Gbit - 1x COM / RS232 - 1x 10Gbit LAN (Marvell AQC113) - 1x 1Gbit LAN (Intel i210AT, IPMI) - 1x USB C 20 Gbit - 6x Audio, 2x front
Interfaces internal	- 3x PCIe 5.0 x16 - 1x PCIe 4.0 x4 - 2x m.2 M-Key 2280/22110: PCIe 5.0 x4 (1x taken by Boot-drive) - 6 x SATA-6G-Ports (AHCI, RAID 0/1/5/10) - various onboard Headers	- 6x PCIe 5.0 x16 - 4x m.2 M-Key 2280/22110: PCIe 5.0 x4 (1x taken by Boot-drive) - 8 x SATA-6G-Ports (AHCI, RAID 0/1/5/10) - various onboard Headers

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Further data

Power supply	- Entry: 1300W/ Pro: 1600 Watt, 80plus Titan (94% Efficiency degree) - 1 x 135 mm Fan - ATX 3.0 - MTBF: >100.000 h @ 25° C
Chassis	- Modern 4U-Chassis - 7 Slots for 4-6 PCIe Cards and/or I/O blends - Drive bay for 2x 5.25" (exposed) - Drive bay for 1x 3.5"/2.5" (internal) - 2x 80mm and 2x 120mm Chassis fans - Mounting for water cooling (upon request) - Front-panel: 1x Power, 1x Reset, 2x USB3 10Gbit Type A und 1x USB3 20 Gbit Type C, 2x Audio - Color: black
Temperatures	5 ~ 90% rel. humidity (non condensing)
Dimencsion (WxHxD)	468 x 176 x 430 mm
Weight	18 kg
Warranty	24 Months

Alternative configurations & optional equipment

- Other Processors
- Other RAM and SSD capacities
- Other Operating systems (Windows Server, Linux compatible)

Ask us!



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Ethernet Cards

- N° 154623 Supermicro AOC-SGP-i4 PC card, 4xGLAN i350, PCIe4, LPHL, 4xRJ45
- N° 159195 Supermicro AOC-SGP-i2 PC card, 2xGLAN i350, PCIe4, LPHL, 2xRJ45
- N° 166804 Supermicro AOC-STG-i4T PC card, 4x10GLAN XL710/X557, PCIe8, LPHL, 4xRJ45
- N° 172651 Supermicro AOC-STGS-i2T PC card, 2x10GLAN, X550, PCIe(x4)3.0, 2xRJ45, LP

Nvidia Profiessional Graphics Cards

- N° 171679 PNY NVIDIA RTX 5000 Ada /32GB-SB PC card, Graphics, PCIe4.0, Dual-Slot, 4xDP, 250W
- N° 171680 PNY Nvidia RTX 4500 Ada /24GB-SB PC card, Graphics, PCIe4.0, Dual-Slot, 4xDP, 210W
- N° 171493 PNY Nvidia RTX 4000 Ada/20GB PPC card, Graphics, PCIe4.0, Single Slot, 4DP, 130W
- N° 173034 PNY Nvidia RTX 2000 Ada/16GB PC card, Graphics, PCIe4.0, Single Slot, 4DP, 70W

Geforce RTX Cards upon request (no long-term availability)

Talk to our sales team about many other options

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Details

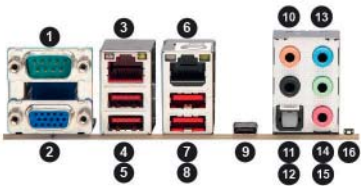


- Power
- Power-LED, Reset
- HDD-LED
- Mic-in, Line-out
- USB Typ-A
- USB Typ-C



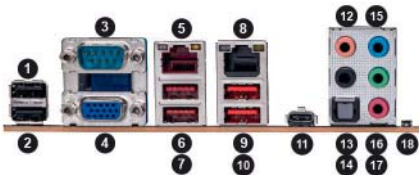
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Entry Systems



Rear I/O Ports				
#	Description	#	Description	#
1	COM1 Port	6	LAN2 (10GbE)	11
2	VGA Port (IPMI only)	7	USB4 (3.2 Gen. 2)	12
3	LAN1 (1GbE)	8	USB5 (3.2 Gen. 2)	13
4	USB6 (3.2 Gen. 2)	9	USB8 (3.2 Gen. 2x2)	14
5	USB7 (3.2 Gen. 2)	10	Center / Subwoofer	15
				16
				UID Switch / BMC Reset Button

Pro Systems



Rear I/O Ports				
#	Description	#	Description	#
1	USB2 (2.0)	6	USB8 (3.2 Gen. 2x1)	11
2	USB3 (2.0)	7	USB9 (3.2 Gen. 2x1)	12
3	COM1 Port	8	LAN2 (10GbE)	13
4	VGA Port (IPMI only)	9	USB6 (3.2 Gen. 2x1)	14
5	LAN1 (1GbE)	10	USB7 (3.2 Gen. 2x1)	15
				16
				Line Out
				17
				Mic In
				18
				UID Switch / BMC Reset Button