



Industrial PC

Spectra Rack 6000 1213

**Modern 4U Industrial PC with 12th/13th Generation CPU
for Machine Vision / AI Applications**

Features

- Modern 4U Industrial PC
- 700 Watt AC Industrial Power Supply
- Industrial Mainboard with PCIe and PCI Expansion Slots
- Intel® Core™ i5/i7 Processors of the 12th and 13th Generation (long term availability)
- Intel® UHD-Graphics 770 onboard
- 1x Intel 2.5 Gigabit-LAN, 1x Intel Gigabit-LAN onboard
- Interfaces: 1x DP, 1x HDMI, 1x DVI-D, 2x RJ45,
2x USB-C (20Gbps), 5x USB3 (10Gbps), 2x USB3 (5Gbps), 2x USB2



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Technical Data

Basic Device Properties

System

Industrial Mainboard	For 24h/7d Operation, long-term available
CPU Socket	LGA1700 for 12th/13th Generation Intel® Core i3/i5/i7/i9 Alder / Raptor Lake up to 125 Watt
Chipset	Intel® W680
Memory Socket	<ul style="list-style-type: none"> • 4x 288-Pin DDR5-DIMM • max. 128 GB PC4400 (ECC or Non-ECC)

Controllers

Graphics	Intel® UHD-Graphics 770
Network	1x Intel 2.5 Gigabit-LAN, 1x Intel Gigabit-LAN
Audio	ALC888S-VD 5.1

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> • 1x PCIe (x16) or 2x PCIe(x8) 5.0 • 2x PCIe(x4) 3.0
Others	<ul style="list-style-type: none"> • 1x PCI • 1x M.2-Socket (E-Key, 2230, CNVi) • 1x M.2-Socket (B-Key, 3052, 4G/5G/LTE)

Drives

Connectors	<ul style="list-style-type: none"> • 6x SATA-6G-Ports (AHCI, RAID 0/1/5/10) • 3x M.2-Socket (M-Key, 2280, Gen PCIe(x4), (1 of which reserved for System Drive)
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Interfaces

Front	<ul style="list-style-type: none"> • 2x USB3.2 Gen1 (5 Gbps), 1x USB3.2 Gen2 Typ C (20 Gbps)
Rear	<ul style="list-style-type: none"> • 1 x DP, 1 x HDMI, 1 x DVI-D • 2x RJ45 • 3x USB3.2 Gen2 Typ A (10 Gbps), 1x USB3.2 Gen2 Typ C (20 Gbps), 2 x USB2.0 (480 Mbps) • 6x Audio (5x Jacks, 1x SPDIF)
Internal (not activated)	<ul style="list-style-type: none"> • 1x USB3.2 Gen1 (5 Gbps), 2 x USB2.0 (480 Mbps), 1x RS-232, TPM Header

Mechanical & Environment Conditions

Chassis	<ul style="list-style-type: none"> • modern 4U Chassis • Suitable for 7 Slots for Expansion Cards or Apertures • Drive bay for 2x 5.25" (exposed); 1x 2.5" (internal) • 2x 80 und 2x 120 mm Chassis fans • Front-Panel: 1x Power, 1x Reset, 3x USB • Color: Black
Power Supply	<ul style="list-style-type: none"> • 750 Watt Industrial Power Supply, 80plus Gold • 1x 80 mm Fan • MTBF: >100.000 h @ 25° C
Dimensions (WxHxD)	430 x 176 x 468 mm
Weight (net/gross)	approx. 14 kg / 18 kg
Temperatures	<ul style="list-style-type: none"> • Operating temperature: 0°C ~ +50°C • Rel. Humidity: 5% ~ 90%, non condensing
Warranty	24 months
Certificates	CE, EN 62368-1, EN 61000-6-2

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Systems Configurations

Pre-defined Systems

Model	Spectra Rack 6000 i7-12700E	Spectra Rack 6000 i9-12900E
Article n°	171229-16-256G-W10	171229-32-1T-W10
Processor	Intel® Core™ i7-12700E	Intel® Core™ i9-12900E
RAM	16 GB DDR5	32 GB DDR5
SSD	512 GB M.2 NVMe	1 TB M.2 NVMe
Operating System	Microsoft® Windows® 10 IoT Enterprise 2021 LTSC, 64-bit, German / English	
Operating Temperature	0°C ~ +50°C	0°C ~ +50°C

System Configuration Options

Processor

- Intel Core i7-12700E (65 Watt, 8 Performance Cores @ 2,1 GHz + 4 Efficiency Cores)
 - Intel Core i7-13700E (65 Watt, 8 Performance Cores @ 1,9GHz + 8 Efficiency Cores)
 - Intel Core i9-12900E (65 Watt, 8 Performance Cores @ 1,9 GHz + 8 Efficiency Cores)
 - Intel Core i9-13900E (65 Watt, 8 Performance Cores @ 1,8GHz + 16 Efficiency Cores)
- (Prozessors with up to 125W upon request)

Memory

- 16GB / 32GB / 64GB / 128GB DDR5 RAM (ECC optional)

Drives

- 256GB / 512GB / 1TB / 2TB NVME M.2 SSD as System Drive
- Up to 6x 2.5" SATA SSD/HDD as Data Drive
(RAID1 & Wechselrahmen optional)

Operating Systems (incl. USB-Recovery-Stick and Acronis True Image)

- Windows 10 IoT Enterprise
- Windows 11 Pro

Ask us!



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Spectra Rack 4HE 700 W680 1213

Details



- ATX Power
- Power-LED, Reset
- HDD-LED
- Mic-in, Line-out
- USB 3.2 Gen1, Typ-A
- USB 3.2 Gen2, Typ-C



Interior



Upright as Tower

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