



Industrial PC

Spectra Rack 4000 1213

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

Features

- 4U Industrial PC
- 500 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
- 2x Intel 2.5 Gigabit-LAN, 1x Intel Gigabit-LAN onboard
- Interfaces: 2x DP, 1x HDMI, 1x VGA, 3x RJ45,
1x USB-C (10Gbps), 5x USB3 (10Gbps), 1x 1x RS-232/422/485



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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® R680
Memory Socket	<ul style="list-style-type: none"> • 4x 288-Pin DDR5-DIMM • max. 128 GB PC4400 (Non-ECC)

Controllers

Graphics	Intel® UHD-Graphics 770
Network	2x Intel 2.5 Gigabit-LAN, 1x Intel Gigabit-LAN
Audio	Realtek ALC897

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> • 1x PCIe(x16) Gen5.0 • 1x PCIe(x8) (Gen5.0) • 2x PCIe(x4) (Gen4.0) • 1x PCIe(x4) (Gen3.0)
Others	<ul style="list-style-type: none"> • 2x PCI • 1x M.2-Socket (E-Key, 2230, CNVi)

Drives

Connectors	<ul style="list-style-type: none"> • 7x SATA-6G-Ports (AHCI, RAID 0/1/5/10) • 1x M.2-Socket (M-Key, 2280, Gen PCIe(x4), (reserved for System Drive)
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Interfaces

Front	<ul style="list-style-type: none"> • 2x USB3.2 Gen1 (5 Gbps)
Rear	<ul style="list-style-type: none"> • 2 x DP, 1 x HDMI, 1 x VGA • 3x RJ45 • 5x USB3.2 Gen2 Typ A (10 Gbps), 1x USB3.2 Gen2 Typ C (10 Gbps) • 1x RS-232/422/485 • 3x Audio (Line-out, Line-in, Mic-in)
Internal (not activated)	4x USB3.2 Gen1 (5 Gbps), 2 x USB2.0 (480 Mbps), 1x RS-232/422/485, 4x RS-232, GPIO/DIO 8-bit, SPI TPM, LPT

Mechanical & Environment Conditions

Chassis	<ul style="list-style-type: none"> • 4U Chassis • Suitable for 5x PCIe and 2x PCI Expansion Cards or Apertures for COM, USB, LPT • Drive bay for 3x 5.25" (exposed); 4x 3.5"/2.5" (internal) • 2x 80 und 1x 120 mm Chassis fans • Front-Panel: 1x Power, 1x Reset, 2x USB • Color: Black
Power Supply	<ul style="list-style-type: none"> • 500 Watt Industrial Power Supply, 80plus Gold • 1x 80 mm Fan • MTBF: >100.000 h @ 25° C
Dimensions (WxHxD)	198 x 425 x 465 mm
Weight (net/gross)	approx. 12 kg / 15 kg
Temperatures	<ul style="list-style-type: none"> • Operating temperature: 0°C ~ +60°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 4000 i5-12500E	Spectra Rack 4000 i7-12700E
Article n°	171274-16-256G-W10	171274-32-1T-W10
Processor	Intel® Core™ i5-12500E	Intel® Core™ i7-12700E
RAM	16 GB DDR5	32 GB DDR5
SSD	256 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 ~ +60°C	0°C ~ +60°C

System Configuration Options

Processor

- Intel Core i5-12500E (65 Watt, 6 Performance Cores @ 2,9 GHz + 0 Efficiency Cores)
 - Intel Core i5-13500E (65 Watt, 6 Performance Cores @ 2,4 GHz + 8 Efficiency Cores)
 - 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)
- (Prozessors with up to 125W upon request)

Memory

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

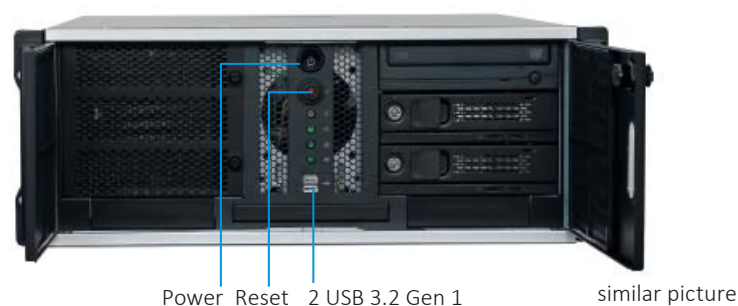
Drives

- 256GB / 512GB / 1TB / 2TB NVME M.2 SSD as System Drive
- Up to 7x 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
- Supports Ubuntu, RedHat Enterprise, Fedora Workstation, Open SUSE

Details



Ask us!



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