



*Industrial PC*

## Spectra Rack 2000 1213

**Compact 2U Industrial PC with 12th/13th Generation CPU  
for Machine Vision / AI Applications**

### Features

- Compact 2U 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
- 2 x Intel 2.5 Gigabit-LAN onboard
- Interfaces: 2x DP, 1x HDMI, 2x RJ45,  
4x USB3 (10Gbps), 2x USB3 (5Gbps) rear, 2x USB3 (5Gbps) front, 2x COM



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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"> <li>• 4x 288-Pin DDR4-DIMM</li> <li>• max. 128 GB PC3200 (ECC or Non-ECC)</li> </ul>

#### Controllers

Graphics	Intel® UHD-Graphics 770
Network	2x Intel 2.5 Gigabit-LAN
Audio	-

#### Expansion Slots

PCI-Express	<ul style="list-style-type: none"> <li>• 1x PCIe (x16) 5.0</li> <li>• 2x PCIe(x4) 4.0</li> <li>• 1x PCIe(x1) 3.0</li> </ul>
Others	<ul style="list-style-type: none"> <li>• 2x PCI</li> <li>• 1x M.2-Socket (E-Key, 2230, CNVi)</li> <li>• 1x M.2-Socket (B-Key, 3052, 4G/5G/LTE)</li> </ul>

#### Drives

Connectors	<ul style="list-style-type: none"> <li>• 4x SATA-6G-Ports (AHCI, RAID 0/1/5/10)</li> <li>• 1x M.2-Socket (M-Key, 2280, NVMe PCIe(x4), reserved for System Drive)</li> <li>• 1x M.2-Socket (M-Key, 2280)</li> </ul>
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#### Interfaces

Front	<ul style="list-style-type: none"> <li>• 2x USB3.2 Gen1 (5 Gbps)</li> </ul>
Rear	<ul style="list-style-type: none"> <li>• 2x DP, 1x HDMI</li> <li>• 2x RJ45 (2.5 GbE)</li> <li>• 4x USB3.2 Gen2 (10 Gbps), 2x USB3.2 Gen1 (5Gbps)</li> <li>• 2x RS-232/422/485</li> </ul>
Internal (not activated)	<ul style="list-style-type: none"> <li>• 1x DVI-D, 2x USB2.0 (480 Mbps), 2x RS-232, 4 digital I/O</li> </ul>

### Mechanical & Environment Conditions

Chassis	<ul style="list-style-type: none"> <li>• Compact 2U Chassis</li> <li>• Suitable for 3 (full height) up to 7 (low profile) Slots for Expansion Cards or Apertures</li> <li>• Drive bay for 1x 5.25" and 1x 3.5" (exposed); 2x 3.5"/2.5" (internal)</li> <li>• 2x 80 und 2x 40 mm Chassis fans</li> <li>• Front-Panel: 1x Power, 1x Reset, 2x USB</li> <li>• Color: Black front / silver chassis</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• 500 Watt Industrial Power Supply, 80plus Gold</li> <li>• 1x 80 mm Fan</li> <li>• MTBF: &gt;100.000 h @ 25° C</li> </ul>
Dimensions (WxHxD)	430 x 88.1 x 457 mm
Weight (net/gross)	approx. 10 kg / 12 kg
Temperatures	<ul style="list-style-type: none"> <li>• Operating temperature: 0°C ~ +60°C</li> <li>• Rel. Humidity: 5% ~ 90%, non condensing</li> </ul>
Warranty	24 months
Certificates	CE, EN 62368-1, EN 61000-6-2

# Spectra Rack 2000 1213

## Systems Configurations

### Pre-defined Systems

Model	Spectra Rack 2000 i5-12500TE-11	Spectra Rack 2000 i7-12700E-11
Article n°	171184-16-256G-W11	171184-32-1T-W11
Processor	Intel® Core™ i5-12500TE	Intel® Core™ i7-12700E
RAM	16 GB DDR4	32 GB DDR4
SSD	256 GB M.2 NVMe	1 TB M.2 NVMe
Operating System	Microsoft® Windows® 11 IoT Enterprise LTSC 2024, 64-bit, German / English	
Operating Temperature	0°C ~ +60°C	0°C ~ +60°C

Model	Spectra Rack 2000 i5-12500TE	Spectra Rack 2000 i7-12700E
Article n°	171184-16-256G-W10	171184-32-1T-W10
Processor	Intel® Core™ i5-12500TE	Intel® Core™ i7-12700E
RAM	16 GB DDR4	32 GB DDR4
SSD	256 GB M.2 NVMe	1 TB M.2 NVMe
Operating System	Microsoft® Windows® 10 IoT Enterprise LTSC 2021, 64-bit, German / English	
Operating Temperature	0°C ~ +60°C	0°C ~ +60°C

### System Configuration Options

#### Processor

- Intel Core i5-12500TE (35 Watt, 6 Performance Cores @ 1,9 GHz + 0 Efficiency Cores)
  - Intel Core i5-13500TE (35 Watt, 6 Performance Cores @ 1,3 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)
- (Processors with up to 125W upon request)

#### Memory

- 16 / 32 / 64 / 128 GB DDR4 RAM (ECC optional)

#### Drives

- 256GB / 512GB / 1TB / 2TB NVME M.2 SSD as System Drive
- Up to 4x 2.5" SATA SSD/HDD as Data Drive  
(RAID1 & Removable Tray optional)

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

- Windows 11 IoT Enterprise
- Windows 10 IoT Enterprise
- Windows 11 Pro

### Ask us!



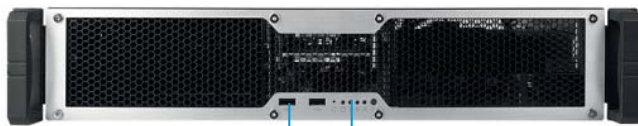
+49 (0) 7121 1432-150

+43 (0) 7240 20190

+41 (0) 43 27710-50

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## Details



2 USB3.2 Gen 1      Power

7 slots low profile rear window



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