

*Industrial PC*



## Spectra Tower 5000 1213

**Industrial PC Tower with 12th/13th Generation CPU  
for Machine Vision / AI Applications**

### Features

- Industrial PC Tower
- 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"> <li>• 4x 288-Pin DDR5-DIMM</li> <li>• max. 128 GB PC4400 (Non-ECC)</li> </ul>

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

#### Drives

Connectors	<ul style="list-style-type: none"> <li>• 7x SATA-6G-Ports (AHCI, RAID 0/1/5/10)</li> <li>• 1x M.2-Socket (M-Key, 2280, Gen PCIe(x4), (reserved for System Drive)</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>• 2 x DP, 1 x HDMI, 1 x VGA</li> <li>• 3x RJ45</li> <li>• 5x USB3.2 Gen2 Typ A (10 Gbps), 1x USB3.2 Gen2 Typ C (10 Gbps)</li> <li>• 1x RS-232/422/485</li> <li>• 3x Audio (Line-out, Line-in, Mic-in)</li> </ul>
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"> <li>• Tower Chassis</li> <li>• Suitable for 5x PCIe and 2x PCI Expansion Cards or Apertures for COM, USB, LPT</li> <li>• Drive bay for 3x 5.25" (exposed); 4x 3.5"/2.5" (internal)</li> <li>• 2x 80 und 1x 120 mm Chassis fans</li> <li>• Front-Panel: 1x Power, 1x Reset, 2x USB</li> <li>• Color: Black</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)	198 x 425 x 465 mm
Weight (net/gross)	approx. 12 kg / 15 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

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## Systems Configurations

### Pre-defined Systems

Model	Spectra Tower 5000 i5-12500E	Spectra Tower 5000 i7-12700E
Article n°	171221-16-256G-W10	171221-32-1T-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

### Ask us!



 +49 (0) 7121 1432-150

 +43 (0) 7240 20190

 +41 (0) 43 27710-50

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## Details



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