



Industrial PC

Spectra Rack 1HE 500 R680 1213

**19"-1U Industrial PC with 12th Generation Alder Lake CPU
and Windows 10 IoT Enterprise**

Features

- 19" 1U Industrial PC
- 500 Watt Industrial Power Supply
- Industrial Mainboard with 1x PCIe(x16) Expansion Slot
- Intel® Core™ i5-12500TE (1.9 GHz, 6 Cores / 12 Threads), 16 GB RAM
- Intel® UHD-Grafik 770 onboard
- 2 x Intel 2.5 Gigabit-LAN onboard
- Interfaces (extern): 1 x VGA, 1x DVI, 2x DP, 1x HDMI, 2 x RJ45,
2 x USB3.2 Gen2, 2 x USB3.2 Gen1 (Front)
- Interfaces (optional): 4 x COM, 2 x USB3.2 Gen2, 2x USB 2.0, TPM Header
- 256 GB NVME M.2 SSD as System Drive, Hot-Swap Bay for 2x 2.5"
- Operating System: Windows 10 IoT Enterprise 2021 LTSC, 64-Bit



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Technical Data

System

Industrial Mainboard	for 24h/7d-Einsatz, long-term available
CPU	<ul style="list-style-type: none"> • Intel® Core™ i5-12500TE • Socket: FCLGA1700 • Cores/Threads: 6/12 • Base Frequency: 1,9 GHz • TDP: 35 W • long-term available
Chipset	Intel® R680
DIMM-Socket	<ul style="list-style-type: none"> • 4 x 288-Pin DDR5-DIMM-Socket • max. 64 GB PC4400 (ECC oder Non-ECC)
RAM	installed 2 x 8 GB PC4000 (Dual-Channel, on die-ECC)

Controllers

Graphics	Intel® UHD-Grafik 770
Network	2 x Intel i225LM, 2.5 GbE (Windows 2022 Server compatible)
Audio	-

Expansion Slots

PCI-Express	• 1 x PCIe (x16) 5.0 for one Single Slot add-on card
Others	-

Drives

Connectors	<ul style="list-style-type: none"> • 4 x SATA-6G-Ports (AHCI, RAID 0/1/5/10) • 1 x M.2-Socket (M-Key, 2280, Gen5 PCIe(x4))
System Drive	• 1 x 256 GB NVME M.2 SSD
Others	-

Interfaces

Front	• 2 x USB3.2 Gen1 (5 Gbps)
Rear	<ul style="list-style-type: none"> • 1 x VGA, 1x DVI, 2x DP, 1x HDMI • 2 x RJ45 • 2 x USB3.2 Gen2 (10 Gbps)
Internal (not activated)	<ul style="list-style-type: none"> • 2 x USB3.2 Gen2 (10 Gbps) • 2 x USB2.0 (480 Mbps) • 2 x RS-232 • 2 x RS422/485 • 1 x TPM Header



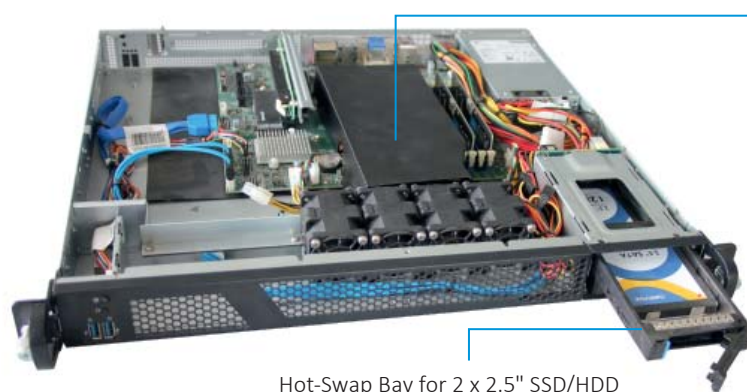
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Mechanical & Environment Conditions

Chassis	<ul style="list-style-type: none"> 19"-1U Chassis Suitable for 1 PCIe- Expansion card Hot-Swap Bay for 2 x 2.5"-Laufwerk, with front access 4 x 40 mm Chassis Fan Front-Panel: 1 x Power, 1 x Reset, 2 x USB3 LEDs: Power, HDD Color: silver (Front schwarz) Cover can be screwed or clipped
Power Supply	<ul style="list-style-type: none"> 500 Watt, FATX Industrial PSU, 80plus Gold 1 x 40 mm Fan MTBF: >100.000 h @ 25° C
Dimensions (WxHxD)	438,5 x 43,2 x 409 mm
Weight	approx. 12 kg
Temperatures	<ul style="list-style-type: none"> Operating temperature: 0°C to +60°C Rel. Humidity: 5% to 90%, non condensing
Operating system	Microsoft® Windows® 10 IoT Enterprise 2021 LTSC, 64-Bit, incl. USB-Recovery-Stick and Acronis True Image
Warranty	24 Months
Certificates	CE, EN 62368-1, EN 61000-6-2

Details



Hot-Swap Bay for 2 x 2.5" SSD/HDD



Wind tunnel for optimised airflow



Ordering Information

Article number	170118
Description	Spectra Rack 1HE 500 R680 1213 19"-PC, 1HE, 500W Power Supply, i5-12500TE CPU, 32 GB RAM, 256 GB M2, Win10IoT