

# Fanless Rack Server - Intel Xeon Server - IP50

Edge Servers

Fanless • Passively cooled

IP50

## Fullrack rugged server format for edge



### Product Overview

The Full Rack Fanless Server is perfect for edge applications, offering up to 12 cores and 24 threads powered by the Intel Xeon D-2166 processor. This high-performance server provides the computational power needed for demanding tasks, far exceeding the capabilities of smaller rugged devices. With the added advantages of server-grade remote management and redundant power supply, it guarantees minimal downtime and ensures maximum reliability for critical operations.

### Key Specifications

- Processor: Xeon D-2166
- Operating Range: 0C to 60C
- ASPEED AST2500 - IPMI 1.5/2.0 -1 x RJ45 for dedicated management
- ECC Memory
- Maintenance free

### Key benefits of FANLESS and RUGGED computers



No fans obviously means no noise, but it's not the only benefit!



No fans allow an important decrease in power consumption, making our products more sustainable!



A fanless computer eliminates the risk to draw in dust and dirt from the environment, the cause of potential failures and costly downtime.



The absence of moving parts enable our products to resist shocks and vibrations, for an increased reliability.



They are built to withstand harsh and constrained working conditions.



High Ingress Protection (IP) rating, indication the protection level of products against both solid and liquids in electrical enclosures.



The in-house designed and milled aluminium chassis is optimized for efficient passive cooling and durability. Its conception proved their reliability in extended operating temperatures.



The aluminium used for the chassis production is repurposed and recycled, and the production waste is recycled too!

### SOLUTION FAMILY

#### Tranquil IT - Edge Servers

This platform is delivered within the Tranquil IT solution family by 2CRSi Edge. Configuration options including OS imaging, software preload, and customer branding are available without altering the certified platform baseline

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### I/O Rear

Phoenix Connectors, 6x RJ45 for LAN, 1x RJ45 for IPMI, 2x USB 3.0, 1x VGA

## Technical Specification

<b>Processor</b>	Intel Xeon D-2166 - 12 Cores / 24 Threads - 2.00 GHz / 3.00 GHz Turbo - 17MB Cache		
<b>Memory</b>	<b>Slots:</b> 4x DIMM Slots <b>MAX Capacity:</b> 256GB <b>Type:</b> DDR4-2666 1.2V DIMM <b>ECC Support:</b> Yes	<b>Storage</b>	Storage 1 Max: 4TB M2. NVME 2280 Storage 2 Max: 7.68TB 6x 2.5" hot-swappable SATA3 SSD bay drives in Raid 0,1
<b>Graphics Controller</b>	ASPEED AST2500	<b>Graphics Interface</b>	1x VGA - 1920 x 1200 @ 60Hz
<b>Network Interface</b>	i350-AM4 - 4 X RJ45 -10/100/1000 Mbps 2 X RJ45 - 10Gbps	<b>Network Options</b>	2 X 10Gbps SFP+ via SOC
<b>Network Feature</b>	Wake-On-LAN PXE Dual LAN with Teaming Function	<b>Remote Management</b>	ASPEED AST2500 - IPMI 1.5/2.0 -1 x RJ45 for dedicated management KVM over LAN Function
<b>Hardware Monitoring</b>	Watchdog On-Board	<b>Supported OS</b>	Windows Server 2018 - 64bit Windows Server 2019 - 64bit Windows server 2022 - 64 bit Linux Linux Ubuntu Vmware Esxi Win hyper-V server
<b>Encryption</b>	TPM Header X 1		
<b>Power Input</b>	2 x 5.08mm pitch "Phoenix" connector		
<b>Input Voltage</b>	12V		
<b>Consumption</b>	15 - 80w		

## Physical Specification

<b>I/O Front</b>	Power Switch, 1x USB 3.0	<b>LED Front</b>	Power, Power Supply Status, Storage Activity, Network Uplink
<b>LED Rear</b>	Network Uplink/Activity	<b>COM Port Option</b>	
<b>Operational</b>	0c to 60c	<b>Storage Temp</b>	-40c to 70c
<b>Maximum relative humidity</b>	5% to 95%	<b>Cooling Type</b>	Passive Cooling
<b>Size</b>	87.40000000000006 x 430 x 233.5 mm	<b>Weight</b>	11.25 KG
<b>Accessories</b>	Power supply and power cord	<b>Optional Accessories</b>	
<b>Certifications</b>		<b>Warranty</b>	3 Years

Configuration options (OS, branding, software preload) are available and do not alter the certified platform baseline. For bespoke requirements requiring engineering change, enquire about Tranquil Studio.