

TRANQUILIT MICROCLUSTER

Micro Cluster 14th Gen 10 Node - IP51

**Desktop sized data center, this
cloud in a box packs a punch!**

Our Intel 14th Generation Micro Cluster is a fully integrated, low power, modular, computer cluster which delivers incredible versatility at an attractive price. Its scalable nature, small footprint and ease of use make it the perfect development tool, sales aid or even training instrument, while its reliable design, portable size and computational prowess make it an invaluable asset in many situations. Add your Logo and custom shell colours available, make it your own.



Key Features

- Processor: Intel Core Ultra 5 to 7
- Up to 160 Combined Cores
- DDR5 up to 96GB combined memory
- Internal smart switch and power supply
- Transportable

Key benefits of MICROCLUSTERS



Innovative multi-node structure

The chassis structure is engineered to provide robust support for multi hot-swappable computational nodes, it includes a dedicated slot for a single management node, ensuring efficient system control and monitoring, optimizing both performance and flexibility



Redundant internal inter-connectivity

2 Gigabit Ethernet connections per node managed by a smart layer 3 switch



Highly customizable

Our Microcluster offers endless hardware configurations, ensuring it meets the most specific technical needs, additionally providing a variety of color options and personalized laser engravings.



Highly Portable Take it with you anywhere – even as convenient carry-on on most continental and intercontinental airlines



Integrated, compact design

Within 12kg (26.5lbs), the unit incorporates: • Multi nodes • Upto 800W Power Supply • Cooling system • Smart Switch • Proprietary cable management system • Extensive I/O

MC-14MV-10 Node

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Technical Specification

Node CPU Options	Intel Core Ultra 5 125H - 14 (4+8+2) Cores / 18 Threads - 3.60 GHz / 4.50 GHz Turbo - 18MB Cache Intel Core Ultra 7 155H - 16 (6+8+2) Cores / 22 Threads - 3.80 GHz / 4.80 GHz Turbo - 24MB Cache		
Node Memory Options	Slots: 2x SO-DIMM Slots MAX Capacity: 96GB Type: Dual Channel DDR5 5600 MHz ECC Support: No	Node Storage Options	Storage 1 Max: 8TB M.2 NVME 2280 Storage 2 Max: 8TB 2.5" SSD
Node Graphics Controller	Intel Ark Graphics	Node Graphics Interface	2x HDMI 2.1 TMDS Max resolution up to 4096x2160@60Hz
Node Network Interface	LAN1: Intel® I226LM with 10/100/1000/2500 Mbps (to internal Switch) LAN2: Intel® I226V with 10/100/1000/2500 Mbps (to internal Switch)	Cluster Network	Microtik CRS326-24G-2S+IN
Node Network Feature	Wake-On-Lan	Node Remote Management	Intel vPro Technologies
Node Hardware Monitoring	Hardware Watchdog	Supported OS	Windows 11 - 64 bit
Encryption	Intel PTT		
Power Input	IEC		
Input Voltage	110-230V		
Consumption	30 - 800w		

Physical Specification

I/O Front	1 x USB 3.2 Gen2 (Type A), 1 x USB4/Thunderbolt™ 4 (5V/3A, Supports DP 2.1)	LED Front	Power
I/O Rear	1x Mains IEC, 2 x HDMI 2.1 TMDS, 2 x 2.5 Gigabit LAN, 2 x USB 3.2 Gen2 (Type A), 4x RJ45 to Internal switch	LED Rear	Power
			RS232/RS422/RS485 (Optional)
Operational Temp	-10c to 50c (14F to 122F)	Storage Temp	-20c to 60c (-4F to 140F)
Maximum relative humidity	5% to 90%	Cooling Type	Fanned Cooling
Size	186 x 452 x 274 mm	Weight	12 KG
Accessories	Power Cord	Optional Accessories	Wireless Antenna, Flight Case
Certifications	CE, UKCA, RoHS, FCC, WEEE	Warranty	3 years