TRANQUIL IT
MICROCLUSTER

Micro Cluster Intel Xeon Server - IP50

Portable computing solution

The MC-XDC is a robust server-grade solution designed to tackle demanding tasks. It features individual graphics card configuration, making it an ideal portable graphic solution with the ability to handle complex tasks. This high-performance solution is well-equipped to handle a wide range of applications with ease.

Key Features

→ Processor: Xeon D2143 - D2163

→ DDR4 up to 128GB 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

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Technical Specification

Node CPU Options	Intel Xeon D-2143 - 8 Cores / 16 Threads - 2.20 GHz / 3.00 GHz Turbo - 11MB Cache Intel Xeon D-2163 - 12 Cores / 24 Threads - 2.10 GHz / 3.00 GHz - 17MB Cache		
Node Memory Options	**Slots:** 2x DIMM Slots **MAX Capacity:** 128GB **Type:** DDR4-2666 1.2V DIMM **ECC Support:** Yes - Optional	Node Storage Options	Storage 1 Max: 4TB M2. NVME 2280 Storage 2 Max: 4TB 2 x 2.5" SSD
Node Graphics Controller	ASPEED AST2500 Low profile PCie GPU slot available	Node Graphics Interface	1x VGA - 1920 x 1200 @ 60Hz
Node Network Interface	2x 10GbE RJ45 (by Intel X557-AT2), 1 x RJ45 Dedicated IPMI LAN port	Cluster Network	N/A
Node Network Feature	Wake-On-LAN, Energy Efficient Ethernet 802.3az, PXE Dual LAN with Teaming Function	Node Remote Management	ASPEED AST2400 - IPMI 2.0 - RTL8211E - 1 x RJ45 for dedicated management ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
Node Hardware Monitoring	Watchdog On-Board	Supported OS	Windows Server 2016 - 64 bit Windows Server 2012 R2 - 64 bit SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP3 (64 bit) RedHat Enterprise Linux Server 6.6 - 32/64 bit / 7.0 - 64 bit CentOs 6.8 (64 bit) / 7.4 (64 bit)
Encryption	TPM Header 1 x (13-pin)		
Power Input	IEC		
Input Voltage	110-230V		
Consumption	30 - 800w		

Physical Specification

I/O Front	Compute Nodes: Reset switch	LED Front	Management Node: Power/HDD
I/O Rear	Reset switch, 2x HDMI, 2x USB 3.0, 1x RJ45 for LAN	LED Rear	Network Uplink/Activity
			N/A
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	192 x 465 x 284 mm	Weight	15 KG
Accessories	Power Cord	Optional Accessories	Wireless Antenna, Flight Case
Certifications	CE, UKCA, RoHS, FCC , WEEE	Warranty	3 Years

UK CA RoHS FC CE