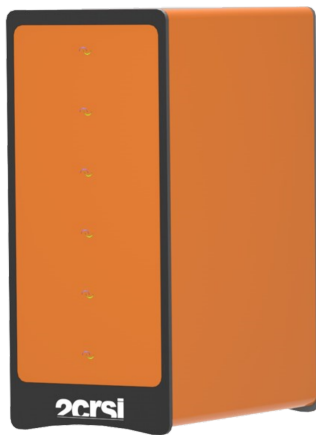


TRANQUILIT MICROCLUSTER

MicroCluster Jetson Orin - IP51

Unleashing unparalleled AI power for the future

The 2CRSi AI Microcluster features a 12-core Cortex-A78AE processor alongside 10,240 CUDA cores and 320 Tensor cores, providing an impressive 1,375 TOPS of AI performance. This outpaces its predecessor, the Jetson AGX Xavier module. Tailored for applications in robotics, autonomous machines, and medical devices, the Jetson AGX Orin matches the performance of a GPU-enabled server.



Key Features

- Processor: Cortex-A78AE
- Combined AI performance upto 1,375 TOPS
- Combined GPU performance upto 10,240 core
- 5x 64GB 256-bit LPDDR5 204.8 GB/s
- 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



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-JON-5 Node

MicroCluster Jetson Orin - IP51

Technical Specification

Node CPU Options	5x8-core Arm®Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 5x 12-core Arm®Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3		
Node Memory Options	Slots: MAX Capacity: 32/64GB (x5) Type: 256-bit LPDDR5 204.8 GB/s ECC Support: No	Node Storage Options	Storage 1 Max: 64GB (x5) eMMC 5.1 Storage 2 Max: 4TB M.2 NVME 2280 (x5)
Node Graphics Controller	1792/2048-core NVIDIA Ampere GPU with 64 Tensor Cores (x5)	Node Graphics Interface	5 x HDMI 2.0a – 4096 x 2304 @ 60Hz
Node Network Interface	RJ-45 1GbE port RJ-45 10GbE port	Cluster Network	
Node Network Feature		Node Remote Management	
Node Hardware Monitoring		Supported OS	Ubuntu 20.04
Encryption			
Power Input	IEC Mains Input		
Input Voltage	110-230V		
Consumption	100-440w		

Physical Specification

I/O Front	Power Switch for each node	LED Front	Power for each Node
I/O Rear	1x IEC Mains input, 5x HDMI, 5x USB, 2x RJ45	LED Rear	
Operational Temp	-10c to 50c (14F to 122F)	Storage Temp	-20c to 60c (-4F to 140F)
Maximum relative humidity	5% to 95%	Cooling Type	Fanned Cooling
Size	445 x 200 x 335 mm	Weight	4 KG
Accessories	Power Cord	Optional Accessories	
Certifications	CE, UKCA, RoHS	Warranty	3 Years

