

INFERENCE SERVER

POWERED BY NVIDIA® JETSON AGX ORIN™

PART NUMBERS: UAGX2U

GPU-Accelerated Machine Learning and Inferencing Servers Bring Flexibility and Cost Efficiency to High-Powered Computing



Developed in partnership with USES Integrated Solutions, this Inference Server is an extremely low wattage, high performance AI workstation powered by the NVIDIA® Jetson AGX Orin™ 64GB module. Running NVIDIA's most powerful deep-learning software libraries, this inference server solves the challenge of deploying edge solutions at scale. The on-board 12x Jetson AGX Orin™ modules are all connected by a Gigabit Ethernet fabric through a specialized Managed Ethernet Switch with 10G uplink capability.



Includes Out of Band Management (OOBM) via an ARM-based SMARC module to control and monitor each of the Jetson AGX Orin™ modules.

FEATURES

- 12x 275 TOPS, 2048-core NVIDIA® Ampere™ GPU and 64 Tensor Cores
 - 4x 10G SFP+ uplink capability
- ✓ Operating Temperature: 0°C to +50°C (+32°F to +122°F)
- 2U ATX style redundant power supply
- ✓ Up to 2TB of NVMe storage per module

SPECIFICATIONS			
Processing Modules	 12x NVIDIA® Jetson AGX Orin™ GPU: 2048-core CUDA GPU with 64 Tensor Cores, 11 TFLOPS (FP16), 275 TOPS (INT8) CPU: 12-core Cortex ARM v8.2 64-bit CPU, 3MB L2 + 6MB L3 Memory: 64GB 256-bit LPDDR5 204.8 GB/s Storage: 64 GB eMMC 5.1 	Out-of-band Management Module	 ARM based OOBM Enabling Serial console access, power status monitoring, and power control (ON/OFF) to all 12x AGX Orin modules OOBM accessible via Ethernet or via its own integrated USB-to-Serial console
Processor Module Carriers	 Each module carrier will allow up to 4x NVIDIA Jetson AGX Orin modules to be installed 3x module carriers can be installed in the system for a total of 12 modules 	Internal Embedded Ethernet Switch	 Vitesse/Microsemi SparX-5i VSC7558TSN-V/5CC Managed Ethernet Switch Engine (XDG205) CPU: 1 GHz VCore Memory: 8Gb DDR4 SDRAM Storage: 1Gbit Serial NOR Flash Multi 10G uplinks, with 12x 1G downstream Complete TSN feature set (Time-Sensitive Networking)
Cooling	 Forced convection via fans on front and rear of system Fans: Delta, 5x 70 x 70 x 28 mm, 75 CFM / 2,400 in H2O static pressure 	Internal Array Communication	 12x Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab channels All AGX Orin modules can communicate to all other AGX Orin modules
External Uplink Connections	• 4x SFP+ 10G uplink	Misc / Additional IO	1x 1GbE OOB management port via RJ-45; 1x USB UART management port; status LEDs
Input Power	100~240 VAC (dual redundant) with 1000W output each	Internal Storage	Each AGX Orin module has its own M.2 NVMe interface (optional)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	Dimensions	Standard 2U rackmount height (3.5 inch / 88.9mm) 25 inch / 635mm Depth



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