



GUSTAV ORIN NX

1024 CUDA CORES | 8 OR 16 GB RAM

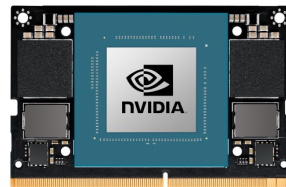


PREFERRED
PARTNER

GUSTAV Orin NX

EDGE DEVICE / SKU: RB-ORIN-NX

GUSTAV® Jetson Orin™ Nano series modules deliver up to 40 TOPS of AI performance in the smallest Jetson form-factor, with power options between 5W and 15W. This gives you up to 80X the performance of NVIDIA Jetson Nano™ and sets the new baseline for entry-level Edge AI.



Features

- NVIDIA® Jetson AGX ORIN™ SOM
- 6 x ARM64 CPU & 1024 CUDA & 32 Tensor-Cores
- 8GB / 16GB of RAM (shared memory)
- 3 x USB 3.x connectors
- 1x 12 Volts input with Lemo Connector
- 1 x HDMI 2.1 Output
- 1x RJ-45 Ethernet (both gigabit)
- 128 – 2.000 GB SSD (M2)
- Active cooling
- Supercap 200 mF
- Quickflash for all NVIDIA® Jetpack SDK
- W: 130mm H:42.5mm D:99mm
- Optional RS232 | RS485 | CAN-BUS

GB = Gigabytes

GUSTAV Orin NX (8 GB)

AI Performance	GPU	GPU Max Frequency	CPU	CPU Max Frequency	DL Accelerator	DL Max Frequency	Vision Accelerator	Safety Cluster Engine	Memory	Storage
70 TOPS	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	765 MHz	6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	2 GHz	1x NVDLA v2.0	614 MHz	1 x PVA v2.0	-	8 GB 128-bit LPDDR5 102.4 GB/s	- (Supports external NVMe)

Video Encode	Video Decode	CSI Camera	PCIE*	USB*	Networking*	Display	Other IO	Power	Mechanical	
1x 4K60 3x 4K30 6x 1080p60 12x 1080p30 (H.265) 1x 4K60 2x 4K30 5x 1080p60 11x 1080p30 (H.264)	1x 8K30 2x 4K60 4x 4K30 9x 1080p60 18x 1080p30 (H.265) 1x 4K60 2x 4K30 5x 1080p60 11x 1080p30 (H.264)	-	-	3x USB 3.2 (Hub) Or 2 x USB 2.0 1 x USB 3.0 (direct to Jetson GPU Module)	1x GbE	HDMI 2.x	GPIOs (Internal)	10W - 20W	69.6mm x 45mm 260-pin SO-DIMM connector	

GUSTAV Orin NX (16 GB)

AI Performance	GPU	GPU Max Frequency	CPU	CPU Max Frequency	DL Accelerator	DL Max Frequency	Vision Accelerator	Safety Cluster Engine	Memory	Storage
100 TOPS	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	918 MHz	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	2.0 GHz	1x NVDLA v2.0	614 MHz	2x NVDLA v2.0	-	16 GB 128-bit LPDDR5 102.4 GB/s	- (Supports external NVMe)

Video Encode	Video Decode	CSI Camera	PCIE*	USB*	Networking*	Display	Other IO	Power	Mechanical	
1x 4K60 3x 4K30 6x 1080p60 12x 1080p30 (H.265) 1x 4K60 2x 4K30 5x 1080p60 11x 1080p30 (H.264)	1x 8K30 2x 4K60 4x 4K30 9x 1080p60 18x 1080p30 (H.265) 1x 4K60 2x 4K30 5x 1080p60 11x 1080p30 (H.264)	-	-	3x USB 3.2 (Hub) Or 2 x USB 2.0 1 x USB 3.0 (direct to Jetson GPU Module)	1x GbE	HDMI 2.x	GPIOs (Internal)	10W - 25W	69.6mm x 45mm 260-pin SO-DIMM connector	

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POWER



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