



GUSTAV XAVIER NX

384 CUDA CORES | 8 OR 16 GB RAM

GUSTAV XAVIER NX

EDGE DEVICE / SKU: RB-XAVIER-NX

These modules have 10X the energy efficiency and 20X the performance of Jetson TX2.



Features

- NVIDIA® Jetson XAVIER NX™
- 6x ARM64 CPU & 384 CUDA & 48 Tensor-Cores
- 8 GB or 16 GB of RAM (shared memory)
- 3x 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 Xavier 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 |
|----------------|---|----------------------|---|-------------------|----------------|------------------|--------------------|-----------------------|------------------------------|----------------|
| 21 TOPs | 384-core NVIDIA Volta™ GPU with 48 Tensor Cores | 1100 MHz (Xavier NX) | 6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3 | 1.9 GHz | 2x NVDLA v1.0 | 1.1 GHz | 2x PVA v1.0 | - | 8GB 128-bit LPDDR4x 59.7GB/s | 16 GB eMMC 5.1 |

| Video Encode | Video Decode | CSI Camera | PCIe* | USB* | Networking* | Display | Other IO | Power | Mechanical | |
|---|---|------------|-------|--|-------------|----------|------------------|-----------|--|--|
| 2x 4K60 4x 4K30 10x 1080p60 22x 1080p30 (H.265) 2x 4K60 4x 4K30 10x 1080p60 20x 108p30 (H.264) | 2x 8K30 6x 4K60 12x 4K30 22x 1080p60 44x 1080p30 (H.265) 2x 4K60 6x 4K30 10x 1080p60 22x 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 | 69.6 mm x 45 mm260-pin SO-DIMM connector | |

GUSTAV Xavier 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 |
|----------------|---|-------------------|--|-------------------|----------------|------------------|--------------------|-----------------------|--------------------------------|----------------|
| 21 TOPs | 384-core NVIDIA Volta™ GPU with 48 Tensor Cores | 1100 MHz | 6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3 | 1.9 GHz | 2x NVDLA v1.0 | 1.1 GHz | 2x PVA v1.0 | - | 16 GB 128-bit LPDDR4x 59.7GB/s | 16 GB eMMC 5.1 |

| Video Encode | Video Decode | CSI Camera | PCIE* | USB* | Networking* | Display | Other IO | Power | Mechanical | |
|---|---|------------|-------|--|-------------|----------|------------------|-----------|--|--|
| 2x 4K60 4x 4K30 10x 1080p60 22x 1080p30 (H.265) 2x 4K60 4x 4K30 10x 1080p60 20x 108p30 (H.264) | 2x 8K30 6x 4K60 12x 4K30 22x 1080p60 44x 1080p30 (H.265) 2x 4K60 6x 4K30 10x 1080p60 22x 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 | 69.6 mm x 45 mm260-pin SO-DIMM connector | |

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