

# A205E Mini PC

## Nvidia Jetson Xavier NX

Take supercomputer performance to the edge.

### Small Size. Big AI Discoveries.

A205E, based on discover the power of AI and robotics with NVIDIA® Jetson . It's small, powerful, and priced for everyone . This means educators, students, and other enthusiasts can now easily create projects with fast and efficient AI using the entire GPU-accelerated NVIDIA software stack.

The A205E benefits from new cloud-native support across the entire Jetson platform line-up, making it easier to build, manage, and deploy AI at the edge. Pre-trained AI models from NVIDIA NGC together with the NVIDIA Transfer Learning Toolkit, provides a faster path to trained and optimized AI networks. Containerized deployment to Jetson devices also allows flexible and seamless updates. NVIDIA JetPack™ SDK enables multi-modal AI application development for A205E with accelerated libraries supporting all major AI frameworks, as well as computer vision, computer graphics, multimedia, and more. Together with the latest NVIDIA tools for application development and optimization, JetPack ensures fast time to market and reduced development costs. Designed for ease of development and speed of deployment, Jetson is the most flexible and scalable platform to get to market and continuously update AI software over the lifetime of a product.

#### Interface

Interface	Specification	Interface	Specification
Network	2 x Gigabit Ethernet Connector (10/100/1000)	Camera	120P Camera cvconnector
Video Output	2 x HDMI 2.0 (TYPE A)	TF_CARD	TF_CARD
USB	4x USB 3.0 Type A (Integrated USB 2.0) 1x USB 2.0 Type C	USB 2.0	ZIF 20P 0.5mm pitch
FAN/CAN	1 x FAN(5V PWM); 1x CAN,	M.2 KEY M	1x M.2 KEY M (NVMe SSD)
RS485/232	1 x RS485 ;1 x RS232	Power Requirements	+9V to +36V DC Input @ 8A
Misc.	2x LED STATE 2x I2C Link (+3.3V I/O) 1X SPI Bus(+3.3V Level)		
AUDIO	1X Audio Jack, 2x Speaker(1W)		



TOP



front



back

## KEY FEATURES

<b>Processor</b>	NVIDIA Jetson Xavier NX
<b>AI Performance</b>	21 TOPS (INT8)
<b>GPU</b>	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
<b>GPU Max Freq</b>	1100 MHz
<b>CPU</b>	6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6MB L2 + 4MB L3
<b>CPU Max Freq</b>	2-core @ 1900MHz 4/6-core @ 1400Mhz
<b>Memory</b>	8 GB 128-bit LPDDR4x @ 1866MHz 59.7GB/s
<b>Storage</b>	16 GB eMMC 5.1
<b>Power</b>	10W - 20W
<b>PCIe</b>	1 x1 + 1x4 (PCIe Gen3, Root Port & Endpoint)
<b>CSI Camera</b>	Up to 6 cameras (24 via virtual channels) 14 lanes MIPI CSI-2 D-PHY 1.2 (up to 30 Gbps)
<b>Video Encode</b>	2x 4K60  4x 4K30  10x 1080p60   22x 1080p30 (H.265)  2x 4K60  4x 4K30  10x 1080p60   20x 108p30 (H.264)
<b>Video Decode</b>	2x 8K30  6x 4K60  12x 4K30   22x 1080p60  44x 1080p30 (H.265) 2x 4K60  6x 4K30  10x 1080p60  22x 1080p30 (H.264) 2 x4K30  6x1080p60  14x1080p30(VP9)
<b>Display</b>	2 multi-mode DP 1.4/eDP 1.4/HDMI 2.0
<b>DL Accelerator</b>	2x NVDLA Engines
<b>Vision Accelerator</b>	7-Way VLIW Vision Processor
<b>Networking</b>	10/100/1000 BASE-T Ethernet

### Install Dimension

