

FCU3001 AI Computing Box

OVERVIEW

FCU3001 AI computing box is designed specially for edge computing related applications, it's based on NVIDIA® Jetson Xavier™ NX SoC a 6-core Carmel ARM up to 1.4GHz. It's integrated with 384 Core Volta GPU and deep learning accelerator engine up to 21 TOPS, can support neural network and can process data from multiple high resolution sensors. A variety of peripheral interface are available and ready-to-use such as 5G/ 4G, CAN, WiFi, USB3.0, RS485 Gigabit Ethernet, HDMI, etc.

FCU3001

AI capability	21 TOPS	RS232/RS485	1
CPU	6 Core ARM® Carmel®V8.2 64-bit	4G/5G	1
RAM	16GB LPDDR4x	CAN	1
Flash	16GB eMMC + MicroSD card expansion	DI/ DO	2x DI, 2x DO
OS	Ubuntu18.04.5 LTS	TF card slot	1
Voltage input	12-24V	Reset	1
Ethernet	4x 10/ 100/1000Mbps	M.2 SSD	1, NVME hard disk
Camera	2x MIPI CSI-2 D-PHY lanes	WiFi	1, 2.4G/ 5G dual band WiFi, STA and AP are both supported
GPU	NVIDIA Volta™, carries 384 NVIDIA® CUDA® cores and 48 Tensor cores	USB	2x USB2.0 2x USB3.0
USB OTG	1, for system installation	HDMI2.0	1
Video encode	2x 4K60 4x 4K30 10x 1080p60 22x 1080p30(H.265) 2x 4K60 4x 4K30 10x 1080p60 20x 1080p30(H.264)	Video decode	2x 8K30 6x 4K60 12x 4K30 22x 1080p60 44x 1080p30 (H.265) 2x 4K60 6x 4K30 10x 1080p60 22x 1080p30(H.264)

