

AE-NJ60BT | Edge AI computer | 157 TOPS| BITECH



Features:

- Jetson Orin Nano/NX Supper
- AI Computing power: 34-157 Tops
- Dual Gigabit Ethernet ports
- Supports expandable Wi-Fi / Bluetooth, 4G/5G and LoRa modules
- Supports TPM/TCM encryption security modules
Compatible with JetPack 5.1.2, 6.0 and 6.2 system versions



SKU	AE-NJ60BT	
Product type		
Product color	Extruded Aluminum with Heavy Duty Metal	
Operating system	Ubuntu20.04	
HARDWARE		
CPU	- NVIDIA Jetson Orin NX 8GB: 6-core 64-bit A78 @ 2GHz, 70 TOPS / 117 TOPS (Super) - NVIDIA Jetson Orin NX 16GB: 8-core 64-bit A78 @ 2.2GHz, 100 TOPS / 157 TOPS (Super)	
Graphic card	NVIDIA Ampere architecture GPU with 1024 cores and 32 Tensor Cores, max frequency 1173MHz	
NPU	2x NVDLA v2	
RAM	1 × M.2 Key-M Slot (PCIe ×4, NVMe SSD, 2242/2260/2280)	
Storage	1x M.2 2280 NVMe SSD	
Ethernet	1 × GbE LAN (from SOM, 10/100/1000 Mbps) 3 × Intel® i210-AT, 10/100/1000 Mbps	
PCIe extension	1x M.2 KEY-E Slot support: 1 × (PCIe ×1 + USB2.0, 2230) for Wi-Fi/BT expansion 1x M.2 KEY-B Slot : 1x (usb3.0x1) support 4G/5G Module 1x Mini PCIE Slot support Lora	
Display	1xHDMI OUT, HDMI Type A (max 8K@30Hz)	
Audio	- 1 × Dual-channel speaker output (18W 4Ω) - 1 × Left/Right channel headphone output - 2 × Microphone input	
Camera & Connectivity interface	CSI	4-lanes MIPI CSI / 4 × GMSL2 (with adapter board)
	USB	4 x USB3.0 type A 4 x USB2.0 type A
	Serial Ports	2 × RS232 or 2 × RS485, 2 × RS485, 1 × UART (3.3V level)
	OTG	1× Type-C OTG_USB
	Debug	1× Type-C Debug
	CAN BUS	2 × CAN FD
	GPIO	4 × IO, 3.3V level (input/output support)

Digital I/O & Control	DI	8 × DI with opto-isolation (default 3.3V, support 3.3V/5V/12V)
	DO	8 × DO with opto-isolation (default 3.3V, support 3.3V/5V/12V)
	SPI	1 × SPI, 3.3V level
	I2C	1 × I2C, 3.3V level
	LED	1 × Power status LED (red), 1 × System LED (green)
	KEYS	1 × Reset key, 1 × Power key, 1 × Upgrade key
	RTC	External RTC backup battery, supports timed power on/off
	FAN	5V/12V fan interface with TACH speed detection
	SIM	1 × Nano SIM slot, 1 × eSIM
	DC IN	DC 12V IN, 5.5x2.5 mm DC Jack/2 pin Phonex terminal
Video Encoding		1 × 4K60 (H.265) 3 × 4K30 (H.265) 6 × 1080P30 (H.265) 18 × 1080P30 (H.265)
Video Decoding		1 × 8K30 (H.265) 2 × 4K60 (H.265) 4 × 4K30 (H.265) 9 × 1080P (H.265) 18 × 1080P30 (H.265)
Compatibility		
Operation Temperature		• -40°C to +70°C
Storage Temperature		• -20°C to +60°C
Relative Humidity		• 10-80 % RH @ 70°C (Non-condensing)
Dimensions And Weight		
Dimensions (W x D x H)		120 x 125 x 42 mm
Weight		1.3 kg
Mounting		Rack mount or Desk
Power adapter		1 × POWER IN (5.08-2P/DC5.5/2.0-4P), DC 9~36V IN Minimum power requirement: 100W Default auto power-on, supports button startup
Physical Design		• Cableless Design • Jumper-less Design • Unibody Design
Lifetime/Warranty/After sales service (For more details, Pls check our after-sales service policy document)		
Lifetime		5-7 years lifecycle for mainboard, modules, shells, ICs.
Technical support		lifetime for OS support, BIOS/Firmware updates, CAN/RS485/PLC debugging,
Warranty		24-Month for completely unit
* We deliver audited consistency with AQL inspection, 100% 18-hour power-on burn-in under load, full SN traceability		

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BITECH provides scalable hardware platform solutions with optional SDK and OS customization for fast system integration