

AX-234BT | Fanless Embedded computer | CAN Bus GPIO | BITECH



Features:

- 13th Gen. Intel Core i5-1345U, 10-Core with DDR5 5200
- Dual LAN, Dual RS232/485, One CANBus,
- Wide voltage: 9–36V DC input, Phoenix terminal, remote power on/off;
- Fanless, cable-less, jumper-less, and unibody aluminum alloy design with multi-mount (wall, side, DIN-rail, VESA).
- Support Windows 11 & Ubuntu, Embedded software



SKU	AX-234BT	
Product type	Industry Computers (FANLESS)	
Product color	Extruded Aluminum with Heavy Duty Metal	
Operating system	Windows 11 pro, Ubuntu	
PROCESSOR/RAM/STORAGE		
Processor Name	Intel® Core i5 1345U (up to 4.6 GHz with Intel® Turbo Boost Technology, 12MB L3 cache, 10 cores, 12 threads) ,TDP 45W	
TPM2.0	TPM2.0	
BIOS	AMI BIOS	
Memory	2x DDR5 SO-DIMM socket, support DDR5 up to 5200MHz(13th Gen),	
Storage	1x 2.5" SATA HDD/SSD or 1x Half-slim SSD (SATA3.0)	
	1x M.2 M-Key 2280 (PCIe_4X)	
Graphics		
Graphic card	Integrated Intel® Iris® Xe Graphics	
Display	1x 24 bits LVDS (LVDS/eDP one of them options)	
	1x HDMI 2.1 / 1x Mini DP , resolution max 4096 x2160@60 Hz	
CONNECTIVITY AND COMMUNICATION: ----- (The below information for Core i5-1345U)		
Network interface	Intergrated 2x LAN 10/100/1000	
4G/5G	1x M.2 B-Key (PCIe+USB3.0, 4G/5G Module), 1x Slim slot	
Wireless	1x M.2 E-Key (PCIe_1X, Wifi module)	
INTERFACE		
I/O ports	USB	3 x 5Gbps USB 3.2 Gen1, Type A
		1x USB2.0, Type C (USB+DP)
	Display	1x mini DP out, 1.4b, 4K@60Hz
		1x HDMI 2.1, 4K@60Hz
	COM	2x Full RS232/422/485
	CAN	1x Can bus
	LAN	Intergrated 2x LAN 10/100/1000 2.5GbE - LAN1 i219: -LAN2 i226-LM, support AMT
	Audio	1 x 3.5mm Combo audio jack
Power		
Power input	DC 9-36 v, ⌀5.5x2.5 mm	
	1x Phonex termial	

		1x Remote Power On/Off, 2-pin Terminal Block
Expansion		
Expansion	COM	COM3/4/5/6 RS232/RS485
	LPT	1x LPT, 2x 13 Pin
	CMOS	1x CMOS, 1x 2 Pin
	SIM slot	1x SIM slot, support 4G/5G
	GPIO	1x 8-bit GPIO
	Others	1x SPDIF, AT/ATX
Environment		
Operation Temperature		-20°C to +60°C - PassMark BurnInTest: 100% CPU, 2D/3D Graphics (without thermal throttling) - With extended temperature peripherals; Ambient with air flow - According to IE61000-3-2, IE61000-3-3
Storage Temperature		-40°C to +85°C
Relative Humidity		• 95% RH @ 70°C (Non-condensing)
Shock		15G, 11ms
Vibration		5 - 500 Hz/1 Grms
EMC		- CE, UKCA, FCC, ICES-003 Class A - EN61000-6-4, EN61000-6-2 (24VDC Input Only)
EMI		- CISPR 32 Conducted & Radiated: Class A - EN/BS EN 55032 Conducted & Radiated: Class A - EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A - EN/BS EN61000-3-3 Voltage fluctuations & flicker - FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS		- EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV - EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 10 V/m - EN/IEC 61000-4-4 EFT: AC Power: 2 kV; DC Power: 1 kV; Signal: 1 kV - EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV - EN/IEC 61000-4-6 CS: 10V (**Compliant with the standard when utilizing shielded ethernet cable.) - EN/IEC 61000-4-8 PFMF: 50 Hz, 30A/m - EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 1 cycles at 60 Hz
Dimensions And Weight		
Dimensions (W x D x H)		210 x 150 x 70 mm
Weight		1.8 kg
Mounting		• Wall / Side / DIN-RAIL / VESA Moun
Physical Design		• Fanless 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% 6-hour power-on burn-in under load, full SN traceability		
Business Terms		
MOQ		MOQ 100 Light Customization NRE Refund @ 2K Units
Customization		OEM/ODM services include I/O layout changes, wireless pre-integration, storage upgrades, front panel branding, and pre-loaded system images for volume projects. NRE new project
Delivery time		35 days for light customization, NRE project against the real situation

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