



Specifications

System Mainboard	MBE104T
CPU Type	Intel® Atom® x7433RE (4-Core, 1.5GHz/2.7GHz, 2MB cache, 9W TDP) Intel® Atom® x7211RE (2-Core, 1.0GHz/2.9GHz, 2MB cache, 6W TDP)
System Speed	Up to 2.9GHz
Memory	1x DDR5-4800 SO-DIMM, Max. 16GB
Rear Panel External I/O	1x DisplayPort + 1x HDMI 3x USB 3.2 ports, 1x USB 3.2(Type-C), 1x USB 2.0 port 2x RJ45 2.5G Ethernet port 3x LED indicators (HDD, WLAN, WWAN) 1x power button with Green LED 1x 3-pin DC-in terminal block for 9V-36V 1x Antenna hole 2x RS232/422/485 ports for COM#3/COM#4 1x 4-in & 4-out GPIO with isolation
Left Panel External I/O	2x RS232/422/485 ports for COM#1/COM#2 1x Antenna hole 1x Line-out/ Mic-in
Right Panel External I/O	Dual SIM card slots with cover 1x Antenna hole
Expansion Slots	1x Full-size Mini PCIe socket (USB 2.0 + PCIe(1x) + mSATA) 1x 2230 M.2 E-key socket (USB 2.0 + PCIe) 1x 3052 M.2 B-key socket (USB 3.2 + SATA)
Storage	1x Mini PCIe socket mSATA SSD 1x M.2 B-key for SATA SSD
Construction	Aluminum + SGCC
Chassis Color	Silver & Gray
Mounting	DIN-rail mounting (DIN-rail mount kit included) Desktop or wall mount (wall mount kit included)
Dimensions	160mm(W) x 110mm(D) x 44mm(H) 6.3"(W) x 4.33"(D) x 1.73"(H)
Weight	1.2 kg
Operating Temperature	-40°C~70°C (-40°F~158°F)
Storage Temperature	-40°C~80°C (-40°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Operating: 2 Grms / 5~500Hz Non-operating: 1 Grms / 5~500Hz
Shock	Operating: 30G/11 ms Duration; Non-operating: 40G/11 ms Duration
Certification	CE/ FCC Class B/ LVD
Operating Systems	Windows 11 LTSC and Linux Ubuntu

Features

- Fanless system with iBASE MBE104T proprietary board
- Intel® Atom® x7433RE/x7211RE Processors
- HDMI & DisplayPort, USB Type-C (For DP & USB 3.2), GPIO 4-in/4-out
- 1x M.2 B-key 3052, supports 5G/4G/LTE module
- 1x M.2 E-key 2230, supports WiFi/BT, 1x full-size Mini PCIe for mSATA
- 2x 2.5G LAN port, 3x USB 3.2, 1x USB 2.0, 4x COM (RS232/422/485)
- 9V~36V DC wide-range power input
- Supports over/under/reverse voltage protection
- Wide-range operating temperature from -40°C to 70°C
- Supports DIN-rail mount, wall mount & TPM 2.0

Ordering Information

AGS104T-7433M	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom™ Processor x7433RE, 2x 2.5G Ethernet, 4x COM, w/o memory, storage, power adaptor, w/ wall mount & DIN-rail brackets (RoHS2)
AGS104T-7211M	Fanless DIN-rail System supports TPM2.0 w/ Intel® Atom™ Processor x7211RE, 2x 2.5G Ethernet, 4x COM, w/o memory, storage, power adaptor, w/ wall mount & DIN-rail brackets (RoHS2)
60W power adaptor (optional)	60W (12V@5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1

Recommended Processor List

Processor Number	Intel® Atom™ Processors – Intel® ASL (Alder-Lake-N) SoC Platform	
	x7211RE	x7433RE
Base Freq (GHz)	1	1.5
Intel® Turbo Boost Technology 2.0 (GHz)	3.2	3.4
Last Level Cache	6M	6M
Cores/Threads	2/2	4/4
Memory Speed (DDR4)	3200	3200
TDP	6W	9W

Dimensions and Drawing

