

IMB-BTL-H610

microATX motherboard supports LGA1700
Intel® 12th/13th/14th
Generation Core™ i9/i7/i5/i3, Pentium®,
Celeron® and Intel Core Processors (Series 2)

Features

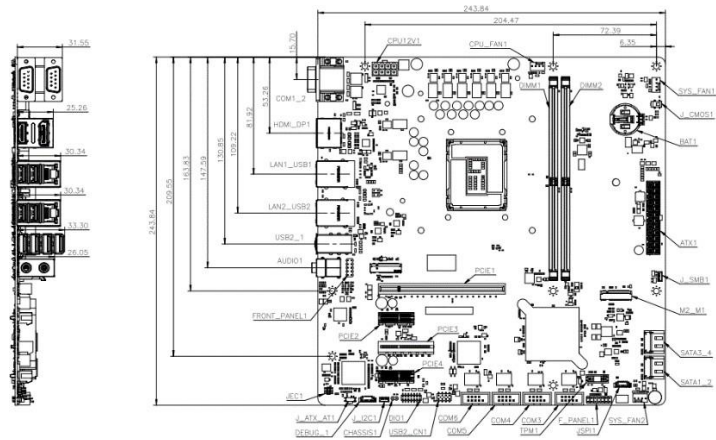
- High-Speed 5600MHz DDR5 Memory up to 96GB
- Versatile visual output via DP, HDMI and iDPM
- Equipped with 2.5GbE high-speed LAN for low-latency networking.
- Flexible expansion with PCIe x16, PCIe x4, PCIe x1 and M.2 M Key support



Specifications

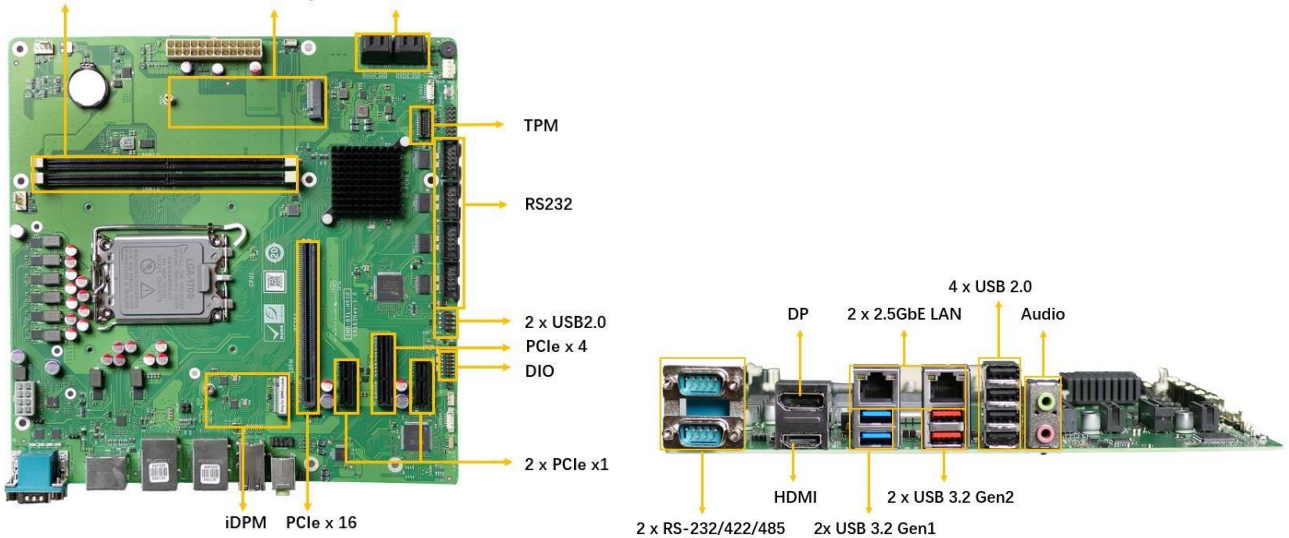
MODEL NAME	IMB-BTL-H610
CPU	LGA1700 socket supports 12th/13th/14th generation Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor and Intel Core Processors (Series 2) (Bartlett Lake S) (up to 65W TDP CPU)
Chipset	Intel® H610/H610E
BIOS	AMI UEFI BIOS
Memory	Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 96GB
Graphics Engine	New Intel® Xe Graphics architecture with SRIOV, Genlock
Display Output	Triple independent display 1 x DP 1.4a (up to 4K @60Hz) 1 x HDMI 1.4b (up to 4K @30Hz) 1 x iDPM 3040 slot (only for IEL eDP/LVDS/VGA module)
Ethernet	LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® i219 LM controller
External I/O Interface	2 x USB 3.2 Gen2 x1 (Type-A) (10Gb/s) 2 x USB 3.2 Gen1 x1 (Type-A) (5Gb/s) 4 x USB 2.0 (Type-A) 2 x RS-232/422/485 (RS-485 support AFC)
Internal I/O Interface	4 x SATA 6Gb/s 2 x USB 2.0 (2x4 pin, P=2.54) 4 x RS-232 (2x5 pin, P=2.54)
I2C/SMBUS	1 x SMBus (1x4 pin) 1 x I2C (1x4 pin)
Audio	2 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
Front Panel	1 x Front Panel (2 x 7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
LAN LED	2 x LAN LED (1x2 pin)
Expansion	1 x PCIe Gen4 x16 with x16 Signal 1 x PCIe Gen3 x4 open-end 2 x PCIe Gen3 x1 1 x M.2 M key 2280
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
TPM	1 x TPM (2x10 pin) & Intel PTT
FAN connector	1 x CPU fan connector (1x4 pin) 2 x System fan connector (1x4 pin)
Chassis Open	1 x Chassis intrusion (1x2 pin)
Power supply	ATX/AT power supply Support AT/ATX mode ErP/EuP Compliant
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	TBD
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Dimension	244mm x 244mm
Weight	GW: 1200g / NW: 700g
Certification	CE/FCC compliant

Dimensions (Unit: mm)



Fully Integrated I/O

Two 288-pin 5600 MHz dual-channel Unbuffered DDR5 SDRAM DIMMs M.2 M Key 4 x SATA



Ordering Information

PART NO.	DESCRIPTION
IMB-BTL-H610-R10	microATX motherboard supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/ i7/i5/i3, Pentium® and Celeron® processor and Intel Core Processors (Series 2)(Bartlett Lake S) , DDR5, Triple independent displays, dual 2.5GbE LAN, USB, SATA 6Gb/s, HD Audio and RoHS

Packing List

ITEM	PART NO
1 x IMB-BTL-H610 single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG

Options

ITEM	PART NO	DESCRIPTION
USB cable	CB-USB02-RS	Dual-port USB cable with bracket, 300mm, p=2.54
RS-232 cable	32205-000702-200-RS	RS-232 cable, 230mm, P=2.54
SATA power cable	32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
eDP to eDP DisplayPort converter board	iDPM-eDP-R10	eDP to eDP DisplayPort converter board (for IEI iDPM connector)
converter board	iDPM-DP-R10	eDP to DP DisplayPort converter board (for IEI iDPM connector)
converter board	iDPM-VGA-R10	eDP to VGA Connector converter board (For IEI Display Module)
Cooler	19100-000323-00-RS	High-performance LGA1700 cooler: 65W, 72*70*25.5mm
Cooler	19100-000333-00-RS	High-performance LGA1700 cooler, 80W, 72*48.5*73.5mm