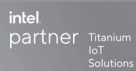
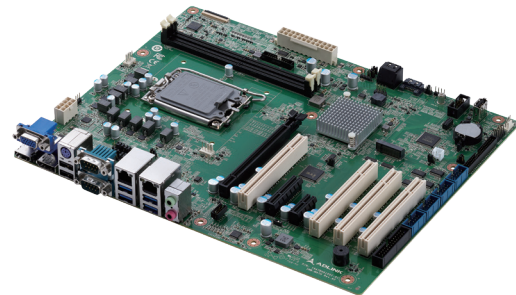


IMB-M47H

Industrial ATX Motherboard for
 12/13/14th Gen Intel® Core™ i9/i7/i5/
 i3 Processors



Features

- Supports 12/13/14th Gen Intel® Core™ i9/i7/i5/i3 CPU
- Intel® H610E Chipset
- Dual-channel DDR5 4800MHz memory up to 64GB
- Triple independent display: 1x DP1.4a, 1x VGA, 1x HDMI 2.0b
- Dual GbE ports: 1x 1GbE (Intel® I219-LM), 1x 2.5GbE (Intel® I225-V)
- Expansion slots: 1x PCIe x16 Gen5, 1x PCIe x4 Gen3, 1x PCIe x1 Gen3, 4x PCI
- TPM 2.0 onboard

Ordering Information

- IMB-M47H
 ATX industrial motherboard for 12/13/14th Gen Intel® Core™
 i9/i7/i5/i3

Note: CPU, memory module, and cooler kit are not included

Packing Lists

- IMB-M47H motherboard
- IMB-M47H I/O shield
- M.2 screw kit

Optional Accessories

- | | |
|-------------------------------------|------------------|
| • CPU cooler for 65W CPU | 32-20976-0000-A0 |
| • CPU cooler for 125W CPU | By request |
| • SATA port cable (7-pin) | 30-10057-7000 |
| • 2-port USB 2.0 cable with bracket | 30-25010-3010 |
| • 1-port LPT cable with bracket | 30-25019-2000 |
| • 2-port COM cable with bracket | 30-25003-3000 |
| • Y cable for PS/2 KB & mouse | 30-01016-2000 |

Specifications

Processor System	CPU	Intel® Core™ i9-13900TE, up to 5.00 GHz, 24 Core, 36M Cache, DDR5 4800 MT/s Support, 35W Intel® Core™ i9-13900E, up to 5.20 GHz, 24 Core, 36M Cache, DDR5 4800 MT/s Support, 65W Intel® Core™ i7-13700E, up to 5.10 GHz, 16 Core, 30M Cache, DDR5 4800 MT/s Support, 65W Intel® Core™ i7-13700TE, up to 4.80 GHz, 16 Core, 30M Cache, DDR5 4800 MT/s Support, 35W Intel® Core™ i5-13500TE, up to 4.50 GHz, 14 Core, 24M Cache, DDR5 4800 MT/s Support, 35W Intel® Core™ i5-13500E, up to 4.60 GHz, 14 Core, 24M Cache, DDR5 4800 MT/s Support, 65W Intel® Core™ i3-13100E, up to 4.40 GHz, 4 Core, 12M Cache, DDR5 4800 MT/s Support, 65W Intel® Core™ i3-13100TE, up to 4.10 GHz, 4 Core, 12M Cache, DDR5 4800 MT/s Support, 35W Intel® Core™ i9-12900E, up to 5.00 GHz, 16 Core, 30M Cache, DDR5 4800 MT/s support, 65W Intel® Core™ i9-12900TE, up to 4.80 GHz, 16 Core, 30M Cache, DDR5 4800 MT/s support, 35W Intel® Core™ i7-12700E, up to 4.80 GHz, 12 Core, 25M Cache, DDR5 4800 MT/s support, 65W Intel® Core™ i7-12700TE, up to 4.60 GHz, 12 Core, 25M Cache, DDR5 4800 MT/s support, 35W Intel® Core™ i5-12500E, up to 4.50 GHz, 6 Core, 18M Cache, DDR5 4800 MT/s support, 65W Intel® Core™ i5-12500TE, up to 4.30 GHz, 6 Core, 18M Cache, DDR5 4800 MT/s support, 35W Intel® Core™ i3-12100E, up to 4.20 GHz, 4 Core, 12M Cache, DDR5 4800 MT/s support, 60W Intel® Core™ i3-12100TE, up to 4.00 GHz, 4 Core, 12M Cache, DDR5 4800 MT/s support, 35W Intel® Pentium® Gold G7400E, up to 3.60 GHz, 2 Core, 6M Cache, DDR5 4800 MT/s support, 46W Intel® Pentium® Gold G7400TE, up to 3.00 GHz, 2 Core, 6M Cache, DDR5 4800 MT/s support, 35W Intel® Celeron® G6900E, up to 3.00 GHz, 2 Core, 4M Cache, DDR5 4800 MT/s support, 46W Intel® Celeron® G6900TE, up to 2.40 GHz, 2 Core, 4M Cache, DDR5 4800 MT/s support, 35W
	Chipset	Intel® H610E Chipset
	Memory	2x 288-pin DDR5 non-ECC sockets Dual-channel DDR5 4800 MHz, up to 64GB
	BIOS	BIOS AMI® UEFI BIOS, 256Mb SPI Flash Memory
	Hardware Monitor	CPU voltage +3.3 V voltage +5 V voltage +12 V voltage CPU temperature System temperature CPU fan speed System fan speed
	Operating Systems	Microsoft Windows 10 64-bit Ubuntu LTS 20.04 (32/64bit)
I/O Interfaces	Serial Ports	2x RS-232/422/485 (rear I/O) 4x RS-232 pin headers
	Ethernet	1x Intel® I219-LM, 1x Intel® I225-V
	LAN LEDs	LAN1, I219-LM, supports 1Gbps/100Mbps/10Mbps LAN2, I225-V supports 2.5Gps/1Gbps/100Mbps/10Mbps
	SATA	3x SATA 6.0 Gb/s connectors
	USB	4x USB 3.2 Gen 1x1 ports (5Gbps, rear I/O) 2x USB 2.0 ports (rear I/O) 1x USB 2.0 vertical Type A port for internal dongles 2x USB 2.0 via header
	Expansion Slots	1x PCIe x16 Gen5 1x PCIe x4 Gen3 1x PCIe x1 Gen3 4x PCI

Specifications

I/O Interfaces	M.2 Connector	1x M.2 M-key, 2280 (supports PCIe x4 Gen3, SATA)
	DIO	32-bit GPIO
	Parallel Port	1x LPT pin header
	PS/2	1x PS/2 keyboard & mouse (rear I/O)
	TPM	TPM 2.0
Audio	Audio	Realtek ALC888S
	Interface	1x Line-out, 1x Mic-in connector (rear I/O)
Graphics	VGA	1x VGA connector (rear I/O), resolution up to 1920 x 1200 @ 60Hz
	DP1.4a	1x DP connector (rear I/O), resolution up to 3840 x 2160 @ 60Hz
	HDMI 2.0b	1x HDMI connector (rear I/O) resolution up to 3840 x 2160 @ 30Hz
Mechanical and Environmental	Form Factor	ATX
	Dimension	305 mm x 244 mm (W x L)
	Operating Temperature	0 °C to 60 °C
	Storage Temperature	-40°C to 85°C
Relative Humidity	60 °C @ 95% RH, non-condensing	
Certification	CE & FCC Class B	

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