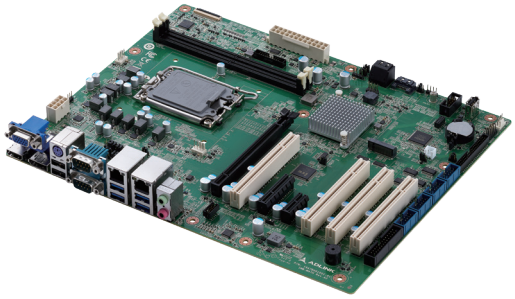
IMB-M47H

Industrial ATX Motherboard supporting Intel® Core™ Series 2 and 14th/13th/12th Gen Intel® Core™ Processors

Features

- Pro Series Industrial ATX Motherboard supporting Intel® Core™ Series 2 and 14th/13th/12th Gen Intel® Core™ Processors
- 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



Windows

60°C
0°C

Ordering Information

PN	Model Name	Chipset	Memory	PCIe x16	PCIe x4	PCIe x1	PCI	HDMI	DP	VGA	LAN	COM	SATA	M.2	USB2.0	USB3.0	TPM2.0
95-13014-10	IMB-M47H	H610E	DDR5 4800 MHz	1	1	1	4	1	1	1	2	6	3	1	5	4	Support

Packing List

Description	QTY
IMB-M47H motherboard	1
IMB-M47H I/O shield	1
M.2 screw kit	1

Optional Accessories

PN	Description
32-20976-0000-A0	CPU cooler for 65W CPU
32-21041-0000-A0	CPU cooler for 125W CPU
30-10057-7000	SATA port cable (7-pin)
30-25010-3010	2-port USB 2.0 cable with bracket
30-25019-2000	1-port LPT cable with bracket
30-25003-3000	2-port COM cable with bracket
30-01016-2000	Y cable for PS/2 KB & mouse

Embedded OS

PN	Description
92-56094-0010	Windows 10 IoT Ent LTSC 2021 High End PKEA
92-56094-2010	Windows 10 IoT Ent LTSC 2021 Value PKEA
92-56094-4010	Windows 10 IoT Ent LTSC 2021 Entry PKEA
92-56102-0010	Windows 11 IoT Ent LTSC 2024 High End PKEA
92-56102-2010	Windows 11 IoT Ent LTSC 2024 Value PKEA
92-56102-4010	Windows 11 IoT Ent LTSC 2024 Entry PKEA

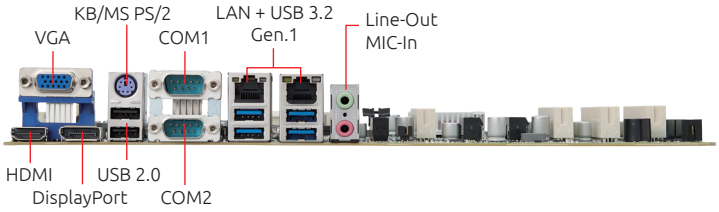
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Specifications

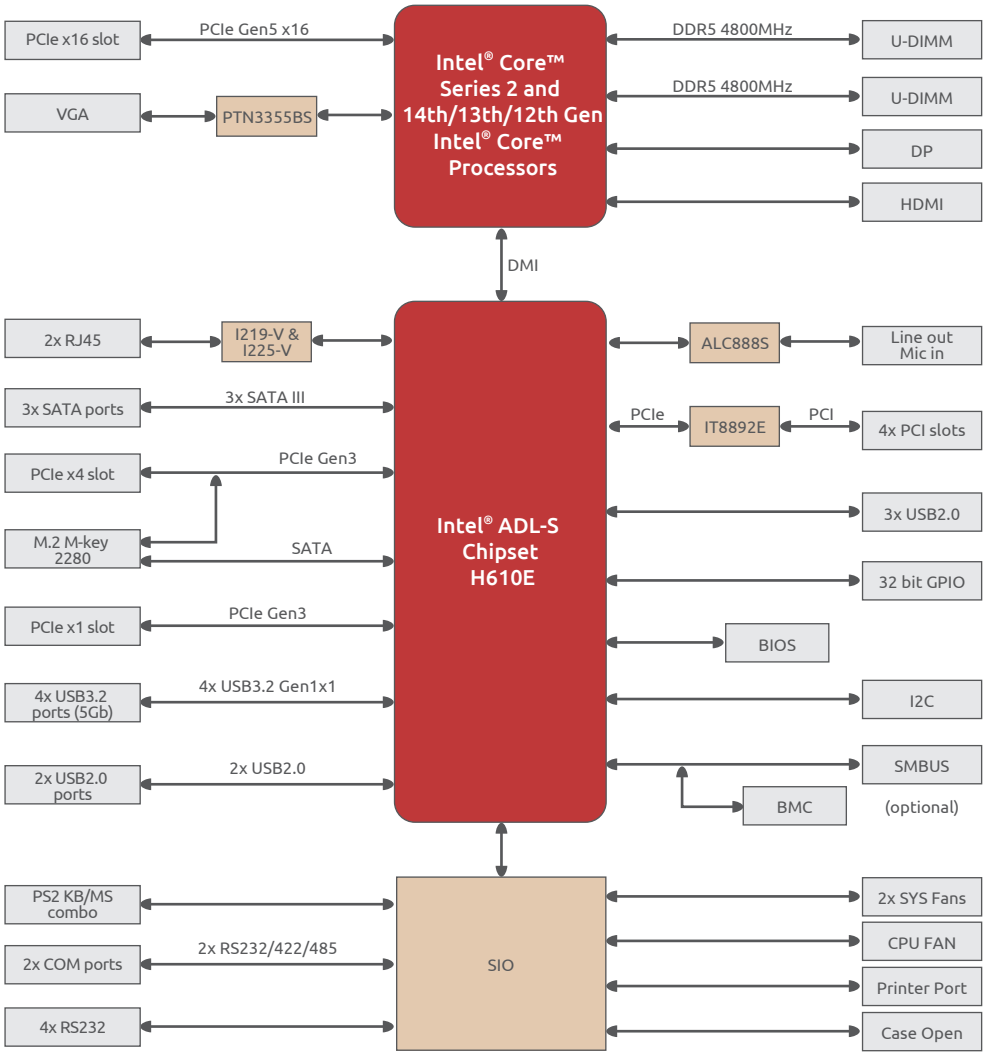
Model	IMB-M47H
Processor System	
CPU	Intel® Core™ Series 2 and 14th/13th/12th Gen Intel® Core™ Processors, up to 65W
Chipset	H610E
Memory	2x DDR5 UDIMMs 4800MHz, up to 64GB, non-ECC
OS Support	Windows® 10/11 (64bit) Ubuntu LTS 20.04 (32/64bit)
Display	
VGA	1
HDMI	1
DisplayPort	1
No. of Displays	3
Ethernet	
Gbe Port	2
Controller/ Frequency	1x Intel® I219-V, 1Gbps 1x Intel® I225-V, 2.5Gps
Storage	
SATA	3x SATA 6Gb/s ports
RAID	-
I/O Interfaces	
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 ports for internal dongles 2x USB 2.0 via headers
COM	2x RS-232/422/485 (rear I/O) 4x RS-232 (pin header)
PS/2	1 (rear I/O)
Audio	Realtek ALC888S
LPT	1 (pin header)
GPIO	32x GPIO
TPM	Yes (TPM 2.0)
Expansion Slots	
PCIe	1x PCIe x16 Gen5 1x PCIe x4 Gen3 1x PCIe x1 Gen3
PCI	4
M.2	1x M.2 B/M-key, 2280 (support PCIe Gen 3x4, SATA)
Mechanical and Environmental	
Dimension	ATX (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 @ 90% RH, non-condensing
Certification	
	CE & FCC Class B

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Product Illustration



Block Diagram



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CPU Support List

Family	Number	CPU Core	Frequency (GHz)	Cache(MB)	Power(W)	Since BIOS
Bartlett Lake-S	273PE	12	2.3GHz	36MB	65	2.05.10
Bartlett Lake-S	273PTE	12	1.4GHz	36MB	45	2.05.10
Bartlett Lake-S	253PE	10	2.5GHz	33MB	65	2.05.10
Bartlett Lake-S	253PTE	10	1.8GHz	33MB	45	2.05.10
Bartlett Lake-S	223PE	8	2.9GHz	24MB	65	2.05.10
Bartlett Lake-S	223PTE	8	2.3GHz	24MB	45	2.05.10
Bartlett Lake-S	213PE	8	2.7GHz	24MB	65	2.05.10
Bartlett Lake-S	213PTE	8	2.1GHz	24MB	45	2.05.10
Bartlett Lake-S	251E	24	2.1 GHz	36MB	65	2.04.10
Bartlett Lake-S	251TE	24	1.4 GHz	36MB	45	2.04.10
Bartlett Lake-S	221E	14	2.7 GHz	24MB	65	2.04.10
Bartlett Lake-S	221TE	14	1.8 GHz	24MB	45	2.04.10
Bartlett Lake-S	211E	10	2.7 GHz	20MB	65	2.04.10
Bartlett Lake-S	211TE	10	1.7 GHz	20MB	45	2.04.10
Bartlett Lake-S	201E	4	3.6 GHz	12MB	60	2.04.10
Bartlett Lake-S	201TE	4	2.9 GHz	12MB	45	2.04.10
Raptor Lake-S Refresh	i9-14900	24	2.0GHz	36MB	65	1.00.10
Raptor Lake-S Refresh	i9-14900T	24	1.1GHz	36MB	35	1.00.10
Raptor Lake-S Refresh	i7-14700	20	2.1GHz	33MB	65	1.00.10
Raptor Lake-S Refresh	i7-14700T	20	1.3GHz	33MB	35	1.00.10
Raptor Lake-S Refresh	i5-14500	14	2.6GHz	24MB	65	1.00.10
Raptor Lake-S Refresh	i5-14500T	14	1.7GHz	24MB	35	1.00.10
Raptor Lake-S Refresh	i5-14400	10	2.5GHz	20MB	65	1.00.10
Raptor Lake-S Refresh	i3-14100	4	3.5GHz	12MB	60	1.00.10
Raptor Lake-S Refresh	i3-14100T	4	2.7GHz	12MB	35	1.00.10
Raptor Lake-S Refresh	300	2	3.9GHz	6MB	46	1.00.10
Raptor Lake-S Refresh	300T	2	3.4GHz	6MB	35	1.00.10
Raptor Lake-S	i9-13900E	24	1.8GHz	36MB	65	1.00.10
Raptor Lake-S	i9-13900	24	2.0GHz	36MB	65	1.00.10
Raptor Lake-S	i9-13900TE	24	1.0GHz	36MB	35	1.00.10
Raptor Lake-S	i7-13700E	16	1.9GHz	30MB	65	1.00.10
Raptor Lake-S	i7-13700	16	2.1GHz	30MB	65	1.00.10
Raptor Lake-S	i7-13700TE	16	1.1GHz	30MB	35	1.00.10
Raptor Lake-S	i5-13500E	14	2.4GHz	24MB	65	1.00.10
Raptor Lake-S	i5-13500	14	2.5GHz	24MB	65	1.00.10
Raptor Lake-S	i5-13500TE	14	1.3GHz	24MB	35	1.00.10
Raptor Lake-S	i5-13400E	10	2.4GHz	20MB	65	1.00.10
Raptor Lake-S	i5-13400	10	2.5GHz	20MB	65	1.00.10
Raptor Lake-S	i3-13100E	4	3.3GHz	12MB	60	1.00.10
Raptor Lake-S	i3-13100	4	3.4GHz	12MB	60	1.00.10
Raptor Lake-S	i3-13100TE	4	2.4GHz	12MB	35	1.00.10
Alder Lake-S	i9-12900E	16	2.3GHz	30MB	65	1.00.10
Alder Lake-S	i9-12900	16	2.4GHz	30MB	65	1.00.10
Alder Lake-S	i9-12900TE	16	1.1GHz	30MB	35	1.00.10
Alder Lake-S	i7-12700E	12	2.1GHz	25MB	65	1.00.10
Alder Lake-S	i7-12700	12	1.6GHz	25MB	65	1.00.10
Alder Lake-S	i7-12700TE	12	1.4GHz	25MB	35	1.00.10
Alder Lake-S	i5-12500E	6	2.9GHz	18MB	65	1.00.10
Alder Lake-S	i5-12500	6	3.0GHz	18MB	65	1.00.10
Alder Lake-S	i5-12500TE	6	1.9GHz	18MB	35	1.00.10
Alder Lake-S	i5-12400	6	2.5GHz	18MB	65	1.00.10
Alder Lake-S	i3-12100E	4	3.2GHz	12MB	60	1.00.10
Alder Lake-S	i3-12100	4	3.3GHz	12MB	60	1.00.10
Alder Lake-S	i3-12100TE	4	2.1GHz	12MB	35	1.00.10
Alder Lake-S	G7400E	2	3.6GHz	6MB	46	1.00.10
Alder Lake-S	G7400TE	2	3.0GHz	6MB	35	1.00.10
Alder Lake-S	G6900E	2	3.0GHZ	4MB	46	1.00.10
Alder Lake-S	G6900TE	2	2.4GHz	4MB	35	1.00.10

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