

RK-609MB-L

Economical Wall-Mount Industrial Chassis Supports ATX Industrial Motherboard



Features

- Supports ATX Industrial Motherboard
- Two internal 3.5" drive bay
- Two USB type A connectors on front panel
- 9cm two ball bearing (72 CFM)
- PS2 ATX power supply, up to 600W

Ordering Information

Model Number	Color	Description
RK-609MB-L	Beige	Economical Wall-Mount Industrial Chassis supports ATX Industrial Motherboard

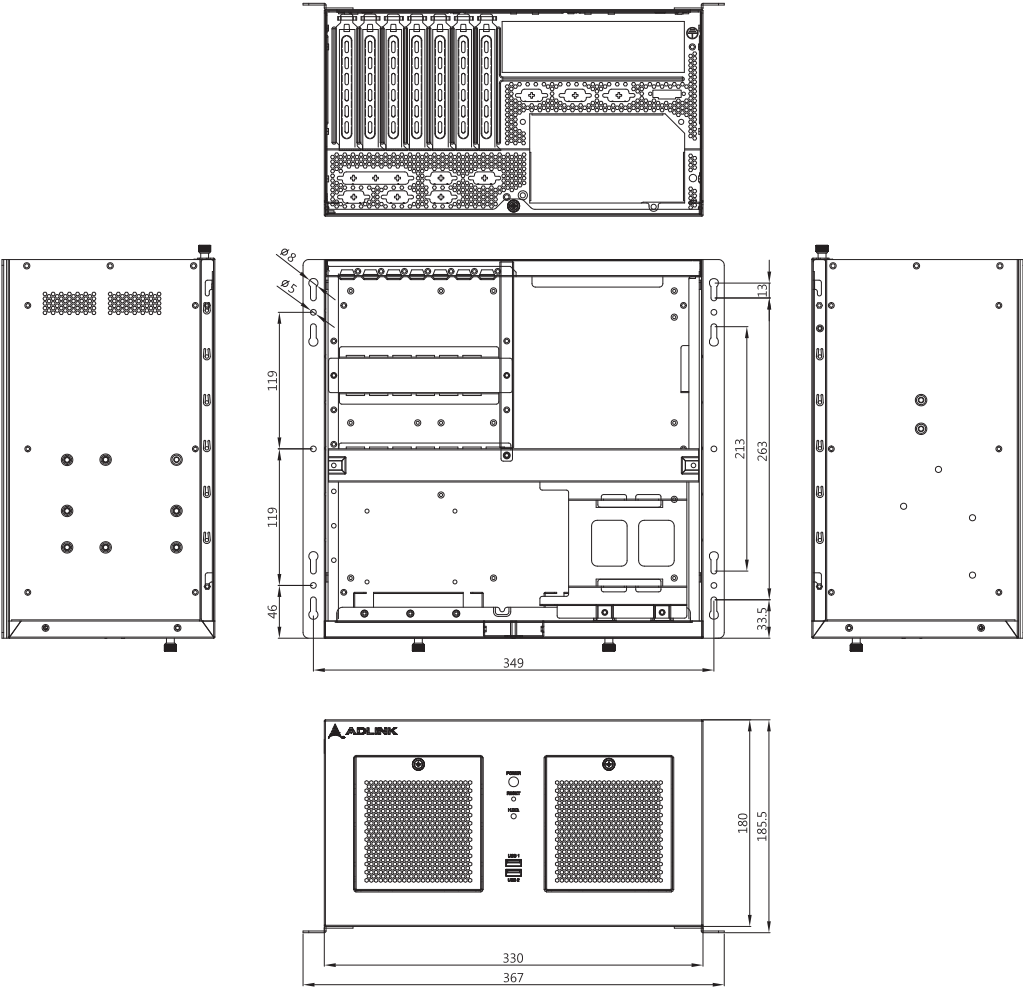
Power Supply Options

Model Number	Watt	Output (Max.)									
		Input Range	+3.3 V	+5 V	+12 V1	+12 V2	+12 V3	+12 V4	-12 V	+5 Vsb	-5 V
APS930XA-ATX12	300W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS940XA-EPS12	400W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS950XA-EPS12	500W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS960XA-EPS12	600W	Universal	25 A	25 A	16 A	16 A	16 A	16 A	0.5 A	4.0 A	0.5 A

Specifications

Dimensions	13 in x 7.09 in x 13 in (330 mm x 180 mm x 330 mm) (W x H x D)
Drive Bays	Two internal 3.5" drive bays
Color	Beige
Cooling Fans	One 90mm x 90mm x 25mm two ball bearing fan (72 CFM)
Front Panel	LEDs: HDD active and system power System reset switch and ATX power switch Two USB type A connectors
Motherboard	Mini-ITX, microATX, or ATX industrial motherboard
Power Supply	PS2 form factor ATX power supply
Carton Size	435 mm x 190 mm x 435 mm (17.13 in x 7.48 in x 17.13 in) (W x H x D)
Weight	6.1 kg (13.45 lbs)

Dimensions



RK-620MB-L/RK-620MB-LF

Economical 4U Rack Mounted
Industrial Chassis Supports
ATX Industrial Motherboard



Features

- Supports ATX industrial motherboards
- Two external 5.25" drive bays
- Two USB type A connectors on front panel
- 12cm two ball bearing cooling fan (103 CFM)
- PS2 ATX power supply

Ordering Information

Model Number	Color	Description
RK-620MB-L	White	Economical 4U Rack Mounted Industrial Chassis for ATX Industrial Motherboard (Nine DB-9, dual DB-37 expansion vent holes)
RK-620MB-LF	White	Economical 4U Rack Mounted Industrial Chassis for ATX Industrial Motherboard (Dual rear fan expansion spaces)

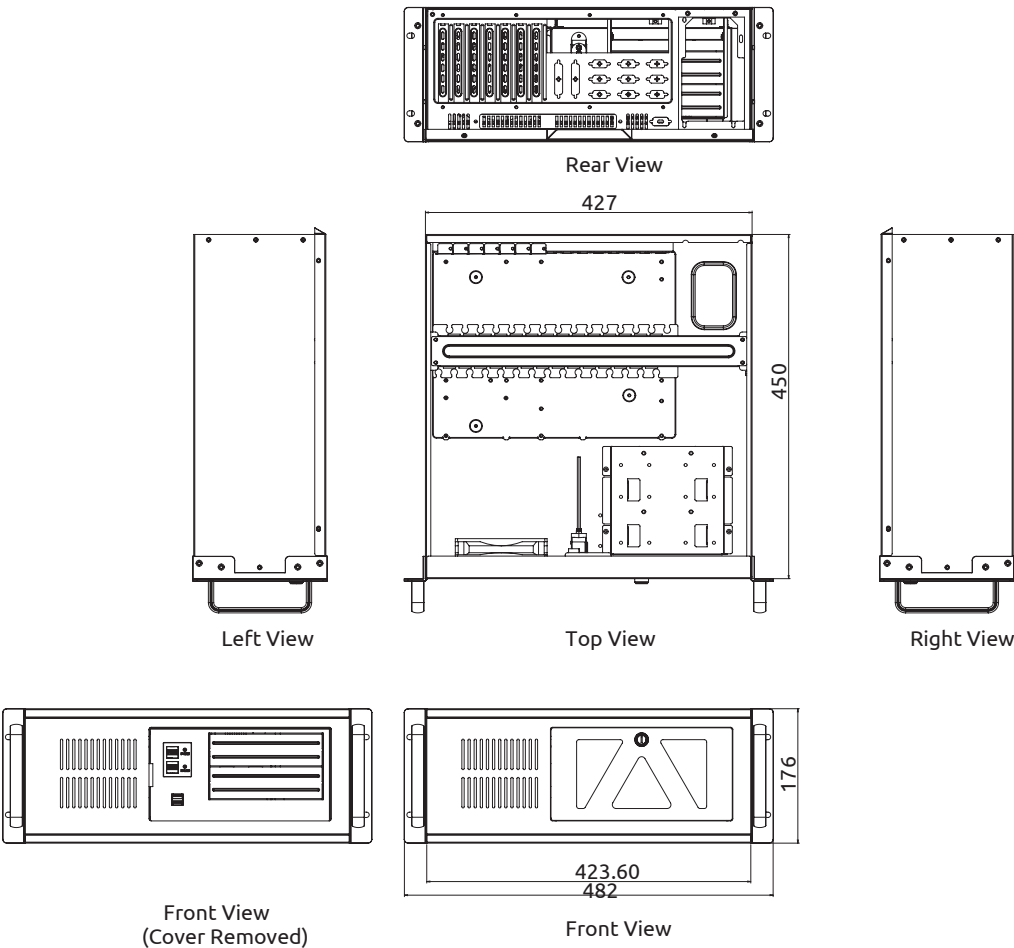
Power Supply Options

Model Number	Watt	Output (Max.)									
		Input Range	+3.3 V	+5 V	+12 V1	+12 V2	+12 V3	+12 V4	-12 V	+5 Vsb	-5 V
APS930XA-ATX12	300W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS940XA-EPS12	400W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS950XA-EPS12	500W	Universal	19 A	16 A	17 A	17 A	N/A	N/A	0.3 A	2.5 A	0.3 A
APS960XA-EPS12	600W	Universal	25 A	25 A	16 A	16 A	16 A	16 A	0.5 A	4.0 A	0.5 A

Specifications

Dimensions	16.8 in x 7 in x 17.4 in (427 mm x 177 mm x 447.9 mm) (W x H x D)
Drive Bays	Two external 5.25" drive bay
Color	White
Cooling Fan	In: one 120mm x 120mm x 25mm two ball bearing fan (103 CFM)
Front Panel	Front door with lock, two USB connectors LEDs: HDD active and system power System reset switch and ATX power switch Two USB type A connectors
Motherboard	Mini-ITX, microATX, or ATX industrial motherboard
Power Supply	PS2 form factor ATX power supply
Carton Size	595 mm x 230 mm x 535 mm (23.42 in x 9.05 in x 21.06 in) (W x H x D)
Weight	Net 10.3 kg (22.7 lbs)

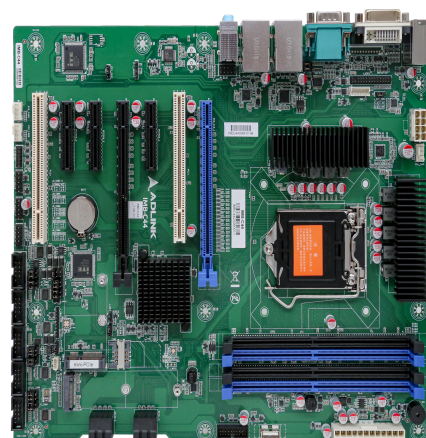
Dimension



IMB-C44

产品特点

- IMB-C44工业主板，搭载Intel® Q270芯片组，全面支持6/7/8/9代酷睿、奔腾和赛扬系列处理器，最高可支持95W TDP八核CPU；
- 4个DDR4内存插槽，最高支持64GB容量；
- 集成三屏独立显示输出功能，通过DVI、HDMI、VGA和eDP接口满足多样化的显示需求；
- 双千兆网口和多个USB3.0高速接口，为工业应用提供强大的硬件支持；
- 支持RAID 0/1/5/10磁盘阵列和可选TPM2.0安全模块，有效保障数据安全和系统可靠性；



订购信息

PN	Model Name	Chipset	Memory	PCIe x16	PCIe x4	PCI	DVI	HDMI	VGA	eDP	LAN	COM	SATA	M.2	USB2.0	USB3.0 (Gen1)	RAID
AC-C0008-0000	IMB-C44	Q270	Non-ECC DDR4 3200 MHz	2	4	1	1	1	1	1	2	6	4	2	5	8	Yes

包装清单

PN	Description	QTY
AC-C0008-0000	IMB-C44	1
N/A	I/O bracket	1

嵌入式操作系统

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
92-56101-0010	Windows 11 IoT Ent 2022 High End PKEA
92-56101-2010	Windows 11 IoT Ent 2022 Value PKEA
92-56101-4010	Windows 11 IoT Ent 2022 Entry PKEA

可选配件

PN	Description
30-25010-3010	USB 2.0 Cable (2 ports)
30-25009-3000	USB 2.0 Cable (4 ports)
30-25046-0100	USB 3.0 Cable (2 ports)
30-10057-7000	SATA Cable
30-25003-3000	COM Cable (2 ports)
32-20113-2000	LGA1156 2U Cooler , 95W
32-20113-3000	LGA1156 2U Cooler , 95W*
32-20131-0010-A0	LGA1156 1U Cooler , 84W

* : 3000与2000底座不同

IMB-C44

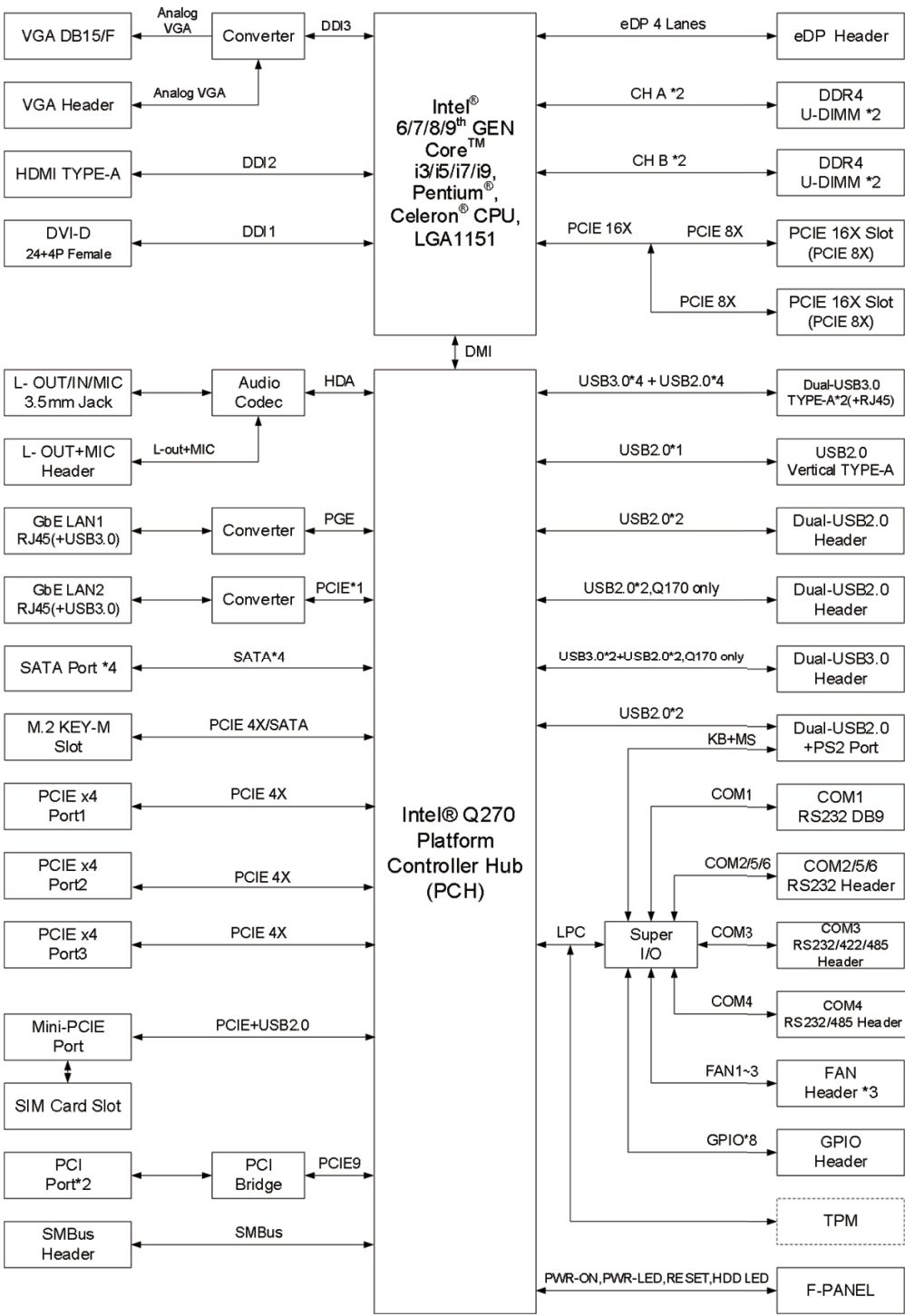
规格

型号	IMB-C44
GPU	支持Intel® 第6/7/8/9代酷睿/奔腾/赛扬桌面处理器(LGA1151插槽) 最高支持95W TDP八核处理器
芯片	Intel® Q270芯片组(TDP 6W)
显示接口	1×DVI-D接口: 最高1920x1200@60Hz 1×HDMI 1.4b(TYPE-A): 最高4096x2160@24Hz 1×VGA接口(DB15/F/插针): 最高1920x1200@60Hz 1×eDP接口(插针): 最高1920x1200@60Hz
内存	支持DDR4-2133/2400MHz; 4×非ECC U-DIMM插槽; 最大支持64GB
存储	支持RAID 0/1/5/10; 4×SATA3.0 7针接口; 1×M.2 KEY-M插槽(PCIe 4X NVMe/SATA SSD自动检测)
网络接口	RJ45_USB1: 1×I219-V千兆网口(10/100/1000Mbps) RJ45_USB2: 1×I225-V千兆网口
音频	Realtek高清音频编解码器; 1×前置音频插针(线路输出+麦克风); 1×3.5mm接口(线路输出+输入+麦克风)
扩展槽	1×PCI-E 16x插槽(PCI-E 3.0,PCIE 8X信号,可选16X); 1×PCI-E 16x插槽(PCI-E 3.0,PCIE 8X信号); 3×PCI-E 4x插槽(PCI-E 3.0); 2×PCI插槽; 1×PCI时钟选择跳线(66MHz/33MHz) 1×Mini PCI-E插槽(支持WIFI+4G/3G,含SIM卡槽)
USB	4×USB3.0(TYPE-A,后置); 2×USB3.0(插针); 2×USB2.0(TYPE-A,后置); 1×USB2.0(垂直TYPE-A,内置); 4×USB2.0(插针);
操作系统	Windows 7/8.1/10/11,Linux
温度	存储温度: -20~75°C; 工作温度: 0~60°C
BIOS	AMI UEFI BIOS(支持看门狗定时器)
电源	标准ATX电源(24Pin+8Pin); 1×8Pin CPU供电接口 1×24Pin主板供电接口
规格	标准ATX板型(305mm×244mm)

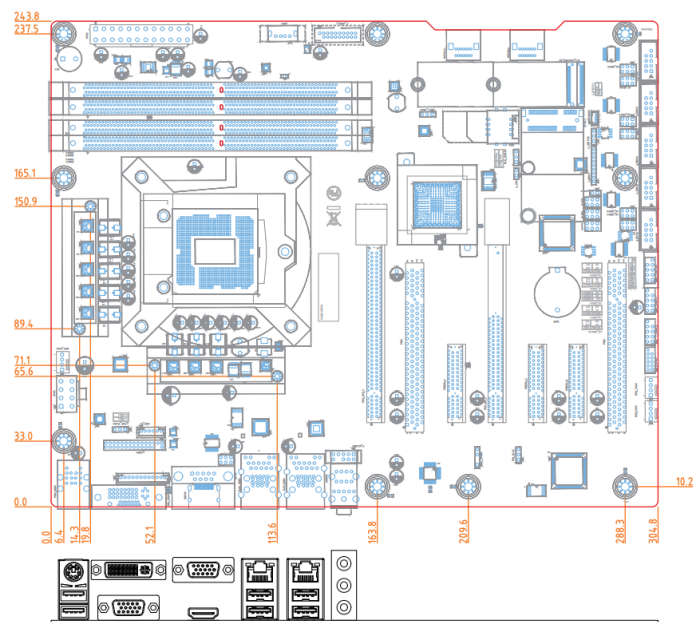
注: (1) Intel® Q270芯片组支持三屏独立显示; (2) 最大内存频率取决于CPU型号; (3) PEG_X8_2与PEG_X16_1共享PCIe 8X信号通道, 默认情况下PEG_X8_2和PEG_X16_1均支持PCIe 8X模式。若不使用PEG_X8_2, 则PEG_X16_1可支持PCIe 16X模式(通过电阻选择)



IMB-C44



IMB-C44



IMB-C46

Industrial ATX Motherboard with
10/11th Gen Intel® Core™ i9/i7/i5/i3
Processors



Features

- 10/11th Gen Intel® Core™ i9/i7/i5/i3 processors and Q470 chipset
- Dual-channel DDR4 2933/2666/2400 MHz memory up to 128 GB
- Triple independent display: DVI-D, HDMI, VGA, eDP
- Dual GbE ports: 2x Intel 1 Gigabit
- Expansion slots: 1x PCIe x16 Gen3, 1x PCIe x8 Gen3, 3x PCIe x4 Gen3, 2x PCI

Ordering Information

- IMB-C46
ATX 10/11th Intel® Core™ i9/i7/i5/i3 industrial motherboard
Note: CPU, memory module, and cooler kit are not included

Optional Accessories

- | | |
|--------------------------|---------------|
| • CPU cooler for 65W CPU | 32-20495-0000 |
| • CPU cooler for 35W CPU | 32-20530-0010 |

Packing Lists

- IMB-C46 I/O shield
- M.2 screws kits

Specifications

Processor System	CPU	Intel® Core™ i9-10900E, up to 4.70GHz, 10 Core, 20M Cache, DDR4 2933MHz support, 65W Intel® Core™ i9-10900TE, up to 4.50GHz, 10 Core, 20M Cache, DDR4 2933MHz support, 35W Intel® Core™ i7-10700E, up to 4.50GHz, 8 Core, 16M Cache, DDR4 2933MHz support, 65W Intel® Core™ i7-10700TE, up to 4.40GHz, 8 Core, 16M Cache, DDR4 2933MHz support, 35W Intel® Core™ i5-10500E, up to 4.20GHz, 6 Core, 12M Cache, DDR4 2666MHz support, 65W Intel® Core™ i5-10500TE, up to 3.70GHz, 6 Core, 12M Cache, DDR4 2666MHz support, 35W Intel® Core™ i3-10100E, up to 3.80 GHz, 4 Core, 6M Cache, DDR4 2666MHz support, 65W Intel® Core™ i3-10100TE, up to 3.60 GHz, 4 Core, 6M Cache, DDR4 2666MHz support, 35W Intel® Pentium® Gold G6400, 3.20GHz, 2 Core, 4M Cache, DDR4 2400MHz support, 35W Intel® Pentium® Gold G6400E, 3.80 GHz, 2 Core, 4M Cache, DDR4 2400MHz support, 58W Intel® Celeron® Processor G5900TE, 2 Core, 3.00GHz, 2M Cache, DDR4 2666MHz support, 35W Intel® Celeron® Processor G5900E, 2 Core, 3.20GHz, 2M Cache, DDR4 2666MHz support, 58W
	Chipset	Chipset Intel® Q470 Express Chipset
	Memory	Four 288-pin non-ECC sockets Dual-channel DDR4 2400/2666/2933 MHz, up to 128 GB
	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
I/O Interfaces	Serial Ports	1x RS-232/422/485 by pin header 1x RS-232/485 by pin header 4x RS-232 (COM1 by DB9, others by pin headers)
	Ethernet	1x Intel® I219-LM, 1Gbps/ 100Mbps / 10Mbps 1x Intel® I210, 1Gbps/ 100Mbps / 10Mbps
	SATA	4x SATA 6.0 Gb/s connectors Intel® Software RAID support 0/1/5/10
	USB	4x USB 3.0 (rear I/O) 2x USB 2.0 (rear I/O) 2x USB 3.0 by pin header 4x USB 2.0 by pin header 1x USB2.0 (Vertical TYPE-A, Internal)
	Expansion Slot	1x PCIe x16 Gen3 1x PCIe x8 Gen3 3x PCIe x4 Gen3 2x PCI 1x Mini PCI-E Slot (WIFI+4G/3G, with 1 * Full-Size SIM Card Slot) 1x M.2 M-Key, 2242/2260/2280 (PCIe x4, SATA)

Specifications

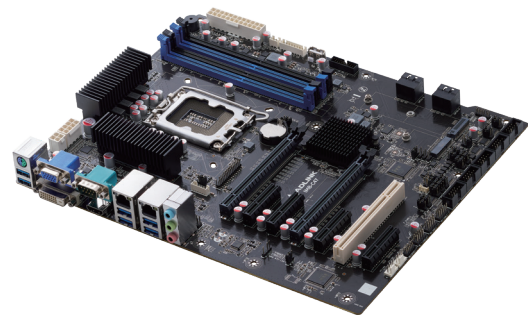
I/O Interfaces	DIO	8-bit GPIO
	Parallel Port	1x LPT pin header
	PS/2	1x PS/2 keyboard & mouse pin header
	TPM	TPM 2.0 (option)
Audio	Audio	Realtek ALC887/ALC897
	Interface	1x Line-out, 1x Line-in, and 1x Mic-in connector (rear I/O)
Graphics	1x DVI-D (DVI-I): Support DVI-D, max resolution up to 1920x1200@60Hz 1x HDMI 1.4b (TYPE-A): up to 4096x2160@30Hz 1x VGA (DB15/F): max resolution up to 1920x1200@60Hz 1x eDP (Header): max resolution up to 4096x2304@60Hz	
Mechanical and Environmental	Form Factor	ATX
	Dimension	305 mm x 244 mm (W x L)
	Operating Temperature	0 °C to 60 °C
	Storage Temperature	-20°C to 75°C
	Relative Humidity	60 °C @ 95% RH, Non-condensing
	Certification	CE & FCC Class B

IMB-C47

Industrial ATX Motherboard supporting
 Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors

Features

- Value Series Industrial ATX Motherboard supporting Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors with Q670 Chipset
- 4x DDR4 3200 MHz memory up to 128 GB
- Four independent display: DVI-D, HDMI, VGA, eDP
- Dual GbE ports: 1x 1GbE, 1x 2.5GbE
- Expansion slots: 2x PCIe x16, 4x PCIe x4, 1x PCI, 1x M.2 E-key 2230, 1x M.2 M-key 2242/2280



Ordering Information

PN	Model Name	Chipset	Memory	PCIe x16	PCIe x4	PCI	DVI	HDMI	VGA	eDP	LAN	COM	SATA	M.2	USB2.0	USB3.0 (Gen1)	RAID
95-13019-0000	IMB-C47	Q670	Non-ECC DDR4 3200 MHz	2	4	1	1	1	1	1	2	6	4	2	5	8	Yes

Packing List

PN	Description	QTY
95-13019-0000	IMB-C47	1
N/A	I/O bracket	1

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
92-56101-0010	Windows 11 IoT Ent 2022 High End PKEA
92-56101-2010	Windows 11 IoT Ent 2022 Value PKEA
92-56101-4010	Windows 11 IoT Ent 2022 Entry PKEA

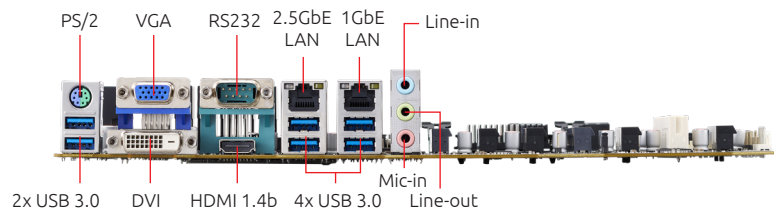
Optional Accessories

PN	Description
32-21041-0000-A0	CPU cooler for 125W CPU
32-20976-0000-A0	CPU cooler for 65W CPU
30-25010-3010	USB 2.0 Cable (2 ports)
30-25009-3000	USB 2.0 Cable (4 ports)
30-25046-0100	USB 3.0 Cable (2 ports)
30-10057-7000	SATA Cable
30-25003-3000	COM Cable (2 ports, L=450mm)
30-25003-5000-A0	COM Cable (2 ports, L=600mm)

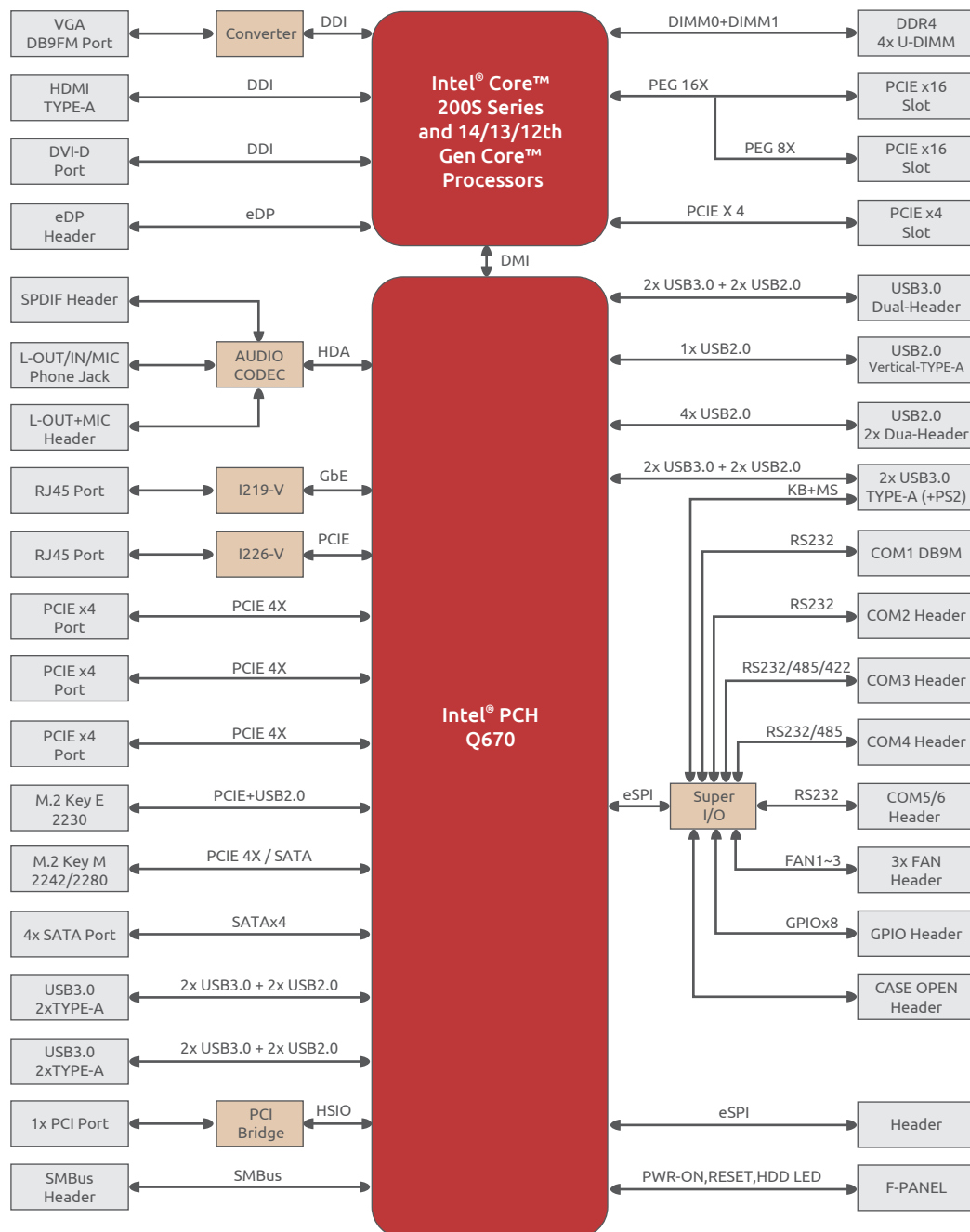
Specifications

Model	IMB-C47
Processor System	
CPU	Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors, up to 125W
Chipset	Intel® Q670 Chipset
Memory	4x 288-pin non-ECC U-DIMM sockets Dual-channel DDR4 3200 MHz, up to 128 GB
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® 10/11 64-bit
I/O Interfaces	
Serial Ports	1x RS-232/422/485 (via header) 1x RS-232/485 (via header) 4x RS-232 (COM1 by DB9/M, others via headers)
Ethernet	1x Intel® I226-V, 2.5GbE 1x Intel® I219-V, 1GbE
SATA	4x SATA3.0 connectors Intel® Software RAID support 0/1/5/10
USB	6x USB 3.0 (rear I/O) 2x USB 3.0 (via header) 4x USB 2.0 (via header) 1x USB 2.0 (vertical TypeA, internal)
Expansion Slots	2x PCIe x16 (Support PCIe Gen4 x8 signal) 4x PCIe x4 (Support 3x PCIe Gen4 x4 and 1x PCIe Gen3 x4 signal) 1x PCI 1x M.2 E-key 2230 (PCIe Gen3 x1, USB2.0, CNVi) for WIFI/Bluetooth Module 1x M.2 M-key 2242/2280 (PCIe Gen4 x4 NVMe/SATA Auto Detect) for SSD
DIO	8-bit GPIO
PS/2	1x PS/2 keyboard & mouse pin header
Audio	
Audio Codec	Realtek ALC897
Interface	1x Line-out, 1x Line-in, and 1x Mic-in connector (rear I/O)
Graphics	
Multiple Display	Four Displays
DVI	1x DVI-D (DVI-I), max resolution up to 1920x1200@60Hz
HDMI	1x HDMI 1.4b, max resolution up to 4096x2160@30Hz
VGA	1x VGA, max resolution up to 1920x1200@60Hz
eDP	1x eDP (via header), max resolution up to 4096x2304@60Hz
Mechanical and Environmental	
Form Factor	ATX
Dimensions	305 mm x 244 mm (W x L)
Operating Temperature	0°C to 60°C
Storage Temperature	-20°C to 75°C
Relative Humidity	
	60°C @ 95% RH, Non-condensing
Certification	
	CE & FCC Class A

Product Illustration



Block Diagram



CPU Support List

Family	Number	CPU Core	Frequency	Cache	Processor Base Power	Since BIOS
Barlette Lake	7 processor 251E	24	2.1GHz	36MB	65W	2.00.10
Barlette Lake	7 processor 251TE	24	1.4GHz	36MB	45W	2.00.10
Barlette Lake	5 processor 221E	14	2.7GHz	24MB	65W	2.00.10
Barlette Lake	5 processor 221TE	14	1.8GHz	24MB	45W	2.00.10
Barlette Lake	5 processor 211E	10	2.7GHz	20MB	65W	2.00.10
Barlette Lake	5 processor 211TE	10	1.7GHz	20MB	45W	2.00.10
Barlette Lake	3 processor 201E	4	3.6GHz	12MB	60W	2.00.10
Barlette Lake	3 processor 201TE	4	2.9GHz	12MB	45W	2.00.10
Alder Lake-S	i9-12900TE	16	1.1GHz	30MB	65W	1.00.10
Alder Lake-S	i9-12900E	16	2.3GHz	30MB	65W	1.00.10
Alder Lake-S	i7-12700TE	12	1.4GHz	25MB	35W	1.00.10
Alder Lake-S	i7-12700E	12	2.1GHz	25MB	65W	1.00.10
Alder Lake-S	i5-12500TE	6	1.9GHz	18MB	35W	1.00.10
Alder Lake-S	i5-12500E	6	2.9GHz	18MB	65W	1.00.10
Alder Lake-S	i3-12100TE	4	2.1GHz	12MB	35W	1.00.10
Alder Lake-S	i3-12100E	4	3.2GHz	12MB	60W	1.00.10
Alder Lake-S	G7400TE	2	3.0GHz	6MB	35W	1.00.10
Alder Lake-S	G7400E	2	3.6GHz	6MB	46W	1.00.10
Alder Lake-S	G6900TE	2	2.4GHz	4MB	35W	1.00.10
Alder Lake-S	G6900E	2	3.0GHz	4MB	46W	1.00.10
Raptor Lake-S	i9-13900TE	24	1.0GHz	36MB	35W	1.00.10
Raptor Lake-S	i9-13900E	24	1.8GHz	36MB	65W	1.00.10
Raptor Lake-S	i7-13700TE	16	1.1GHz	30MB	35W	1.00.10
Raptor Lake-S	i7-13700E	16	1.9GHz	30MB	65W	1.00.10
Raptor Lake-S	i5-13500TE	14	1.3GHz	24MB	35W	1.00.10
Raptor Lake-S	i5-13500E	14	2.4GHz	24MB	65W	1.00.10
Raptor Lake-S	i5-13400E	10	2.4GHz	20MB	65W	1.00.10
Raptor Lake-S	i3-13100TE	4	2.4GHz	12MB	35W	1.00.10
Raptor Lake-S	i3-13100E	4	3.3GHz	12MB	65W	1.00.10
Raptor Lake-S Refresh	i9-14900T	24	1.1GHz	36MB	35W	1.00.10
Raptor Lake-S Refresh	i9-14900	24	2.0GHz	36MB	65W	1.00.10
Raptor Lake-S Refresh	i7-14700T	20	1.3GHz	33MB	35W	1.00.10
Raptor Lake-S Refresh	i7-14700	20	2.1GHz	33MB	65W	1.00.10
Raptor Lake-S Refresh	i5-14500T	14	1.7GHz	24MB	35W	1.00.10
Raptor Lake-S Refresh	i5-14500	14	2.6GHz	24MB	65W	1.00.10
Raptor Lake-S Refresh	i5-14400T	10	1.5GHz	20MB	35W	1.00.10
Raptor Lake-S Refresh	i5-14400	10	2.5GHz	20MB	65W	1.00.10
Raptor Lake-S Refresh	i3-14100T	4	2.7Ghz	12MB	35W	1.00.10
Raptor Lake-S Refresh	i3-14100	4	3.5GHz	12MB	60W	1.00.10
Raptor Lake-S Refresh	300T	2	3.4GHz	6MB	35W	1.00.10
Raptor Lake-S Refresh	300	2	3.9GHz	6MB	46W	1.00.10