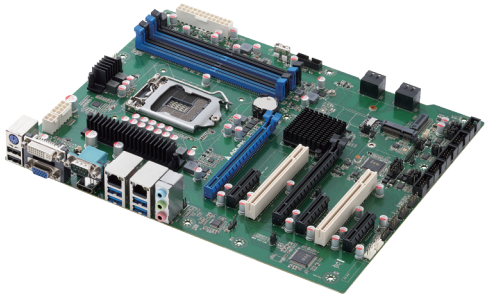
IMB-C46

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

Features

- 10/11th Gen Intel® Core™ i9/i7/i5/i3 processors with Q470E chipset
- Dual-channel DDR4 up to 2933 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 Gen3 x16, 1x PCIe Gen3 x8, 3x PCIe Gen3 x4, 2x PCI



Windows

60°C
0°C

Ordering Information

PN	Model Name	Chipset	Memory	PCIe x16	PCIe x4	PCI	DVI-D	HDMI	VGA	eDP	LAN	COM	SATA	mini-PCIe	M.2	USB3.0	USB2.0
95-13017-0010	IMB-C46	Q470E	Non-ECC DDR4 2933 MHz	1 (2x PCIe x8)	3	2	1	1	1	1	2	6	4	1	2	6	7

Packing Lists

Description	QTY
IMB-C46 I/O shield	1
M.2 screws kits	1
SATA cable	1
COM cable (1port)	1

Optional Accessories

PN	Description
32-20495-0000	CPU cooler for 65W CPU
32-20530-0010	CPU cooler for 35W CPU
30-25003-3000	COM cable (2 ports)
30-25010-3010	USB2.0 cable (2 ports)
30-25009-3000	USB2.0 cable (4 ports)
30-25046-0100	USB3.0 cable (2 ports)
30-10057-7000	SATA Cable

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

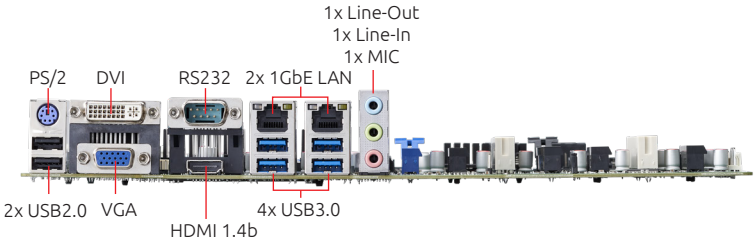
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Specifications

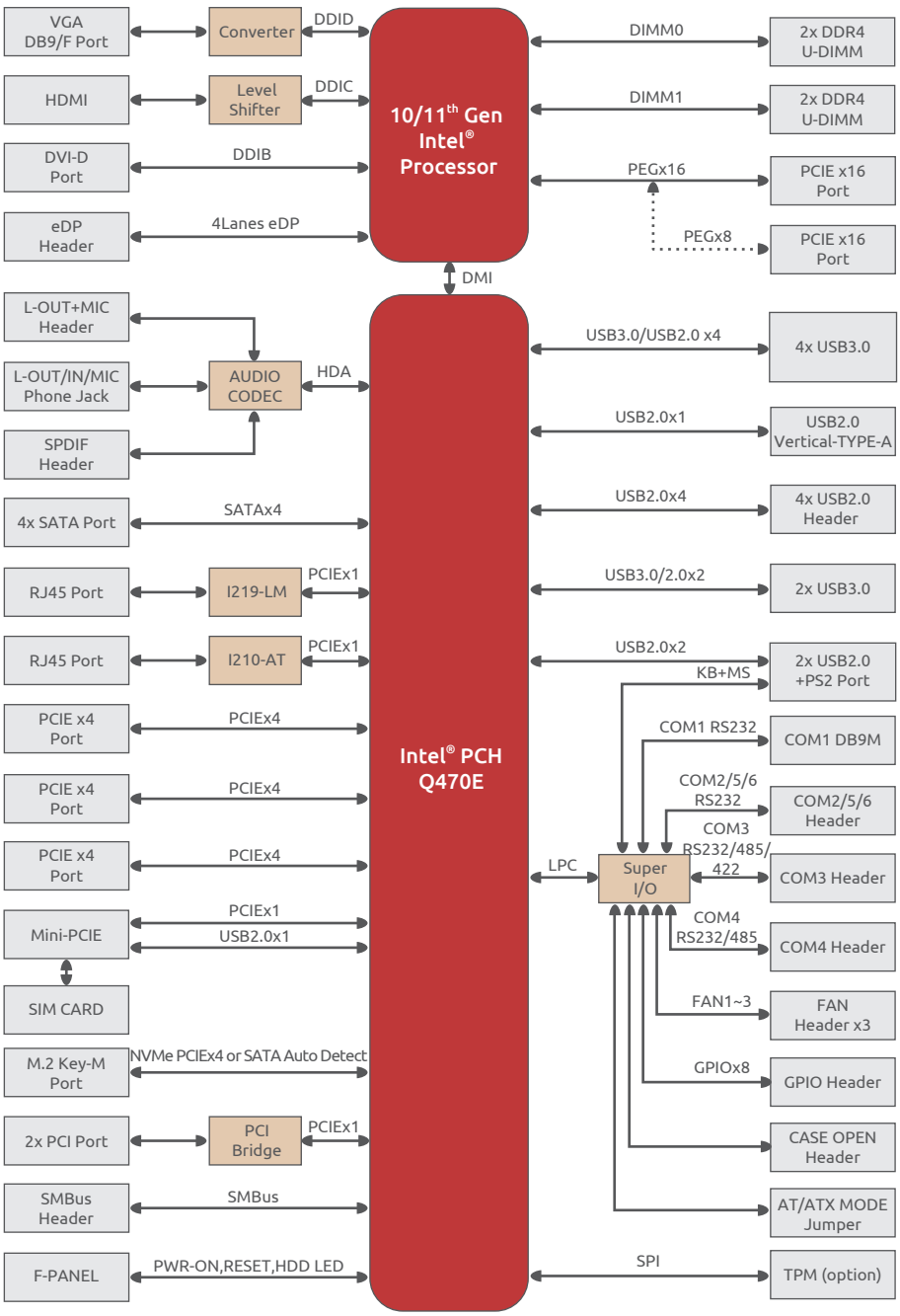
Model	IMB-C46
Processor System	
CPU	10/11th Gen Intel® Core™, up to 65W
Chipset	Q470E
Memory	4x DDR4 UDIMMs 2933MHz, up to 128 GB, non-ECC
OS Support	Windows® 10 64-bit
Display	
VGA	1
HDMI	1
DisplayPort	-
No.of Displays	3 (DVI-D/ HDMI/ VGA/ eDP)
Ethernet	
Gbe Port	2
Controller/ Frequency	1x Intel® I219-LM, 1Gbps 1x Intel® I210, 1Gbps
Storage	
SATA	4x SATA 6Gb/s ports
RAID	Intel SW RAID 0/1/5/10
I/O Interfaces	
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 USB 2.0 (Vertical TYEP-A, Internal)
COM	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)
PS/2	1 (pin header)
Audio	Realtek ALC897
GPIO	8x GPIO
TPM	TPM2.0 (option)
Expansion Slots	
PCIe	2x PCIe x16 Slot (1x PCIe x16 Gen3 or 2x PCIe x8 Gen 3) 3x PCIe x4 Gen 3
PCI	2
M.2	1x M.2 M-Key, 2242/2280 (PCIe x4/ SATA, auto detect)
Mini Card	1x mini PCIe Slot (PCIe x1, USB 2.0 x1) with SIM slot
Mechanical and Environmental	
Dimension	ATX (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
Manageability SEMA	
	-

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Product Illustration



Block Diagram



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CPU Support List

Family	Number	CPU Core	Frequency	Cache	Processor Base Power	Since BIOS
Comet Lake	i9-10900E	10 Cores	4.70 GHz	20 MB	65 W	1.01.11
Comet Lake	i9-10900TE	10 Cores	4.50 GHz	20 MB	35 W	1.01.11
Comet Lake	i7-10700E	8 Cores	4.50 GHz	16 MB	65 W	1.01.11
Comet Lake	i7-10700TE	8 Cores	4.40 GHz	16 MB	35 W	1.01.11
Comet Lake	i5-10500E	6 Cores	4.20 GHz	12 MB	65 W	1.01.11
Comet Lake	i5-10500TE	6 Cores	3.70 GHz	12 MB	35 W	1.01.11
Comet Lake	i3-10100E	4 Cores	3.80 GHz	6 MB	65 W	1.01.11
Comet Lake	i3-10100TE	4 Cores	3.60 GHz	6 MB	35 W	1.01.11
Comet Lake	Pentium G6400	2 Cores	3.20 GHz	4 MB	35 W	1.01.11
Comet Lake	Pentium G6400E	2 Cores	3.80 GHz	4 MB	58 W	1.01.11
Comet Lake	G5900TE	2 Cores	3.00 GHz	2 MB	35 W	1.01.11
Comet Lake	G5900E	2 Cores	3.20 GHz	2 MB	58 W	1.01.11

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