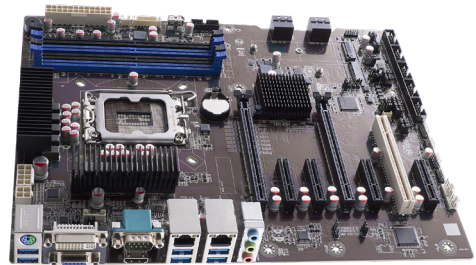


# IMB-C47

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

## Features

- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processors and Q670 chipset
- Quad-channel 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

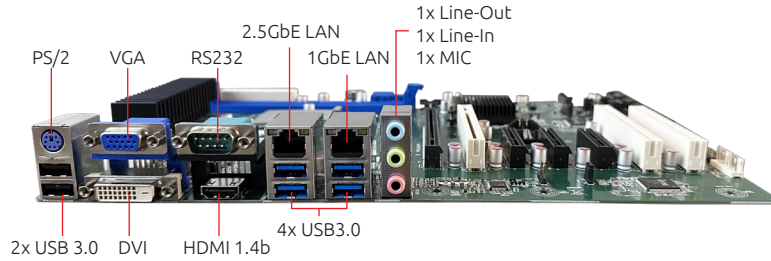
## Optional Accessories

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)

## Specifications

Model	IMB-C47
<b>Processor System</b>	
CPU	14/13/12th Generation Intel® Core™ i9/i7/i5/i3 LGA1700 CPU, up to 125W
Chipset	Intel® Q670 Chipset
Memory	4x 288-pin non-ECC U-DIMM sockets Quad-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
<b>I/O Interfaces</b>	
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
<b>Audio</b>	
Audio Codec	Realtek ALC897
Interface	1x Line-out, 1x Line-in, and 1x Mic-in connector (rear I/O)
<b>Graphics</b>	
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
<b>Mechanical and Environmental</b>	
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
<b>Relative Humidity</b>	
	60°C @ 95% RH, Non-condensing
<b>Certification</b>	
	CE & FCC Class A

## Product Illustration



## Block Diagram

