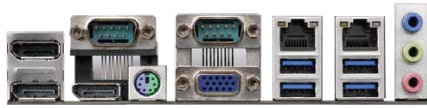


IMB-790

ATX Motherboard



KEY FEATURES

- Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors with Q170 chipset
- 4 x 288-pin Long-DIMM up to 64GB DDR4 2133 MHz (16GB per DIMM)
- 1 x PCIe x16 (Gen3), 1 x PCIe x8 (Gen3), 1 x PCIe x4 (Gen3), 1 x PCIe x1 (Gen3), 3 x PCI, 6 x USB 3.1 Gen1, 6 x USB 2.0, 1 x mini-PCIe, 1 x mSATA, 1 x M.2 Key M, 6 x COM, 6 x SATA3
- 2 x Intel Gigabit LAN
- Supports triple display, 3 x DP1.2a, 1 x VGA
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR

SPECIFICATIONS

Form Factor

Dimensions	ATX (12-in x 9.6-in)
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Processor System

CPU	Intel® 7th/ 6th Gen (Skylake-S) Core™ Processors, up to 65W
Chipset	Intel® Q170
Socket	LGA1151
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR4 2133 MHz
Capacity	64GB (16GB per DIMM)
Socket	4 x 288-pin Long-DIMM

Graphics

Controller	Intel® Gen9 Graphics DX 11/12
HDMI	N/A
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096x2304@60Hz
VGA	Max resolution up to 1920x1200@60Hz
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot

PCIe	2 x PCIe 3.0 Slots (PCIe1/PCIe3: single at x16(PCIe1); dual at x8(PCIe1)/ X8(PCIe3)) 1 x PCIe 3.0 x4 Slots 1 x PCIe 3.0 x1 Slots
PCI	3
mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0
M.2	N/A

Audio

Interface	Realtek ALC887/ALC897, High Definition Audio. Line-out,Mic-in
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Ethernet

Controller/ Speed	LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro
Connector	2 x RJ-45

Rear I/O

HDMI	N/A
DisplayPort	3 x DP 1.2a
VGA	1
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 (Gen1)
Audio	3 (Mic-in, Line-in, Line-out)
COM	COM1, 2(RS-232/422/485)
PS2	1 x PS/2 combo

Internal Connector

USB	2 x USB 3.1 (Gen1) (1 x USB 3.0 header) 6 x USB 2.0 (2 x 2.54 pitch header, 2 x USB 2.0 Type-A vertical con)
COM	COM3,4,5,6(RS-232)
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO (shared with LPT header)
TPM	TPM 2.0 onboard IC
LVDS	N/A
eDP	N/A
VGA	N/A
SATA PWR Output	N/A
Speaker Header	N/A

Storage

M.2	1 x M.2 (Key M, 2230/2242/2260/2280/22110) with PCIe x4 and shared SATA3 for SSD
mSATA	1 x Full size with shared SATA3 and USB2.0
SATA	6 x SATA3 (6Gb/s), SATA3_1 shared with mSATA and SATA3_6 shared with M.2 Key M
RAID	Intel® SATA RAID 0/1/5/10

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...,255sec

Power Requirements

Input PWR	ATX PWR (24+8-pin)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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