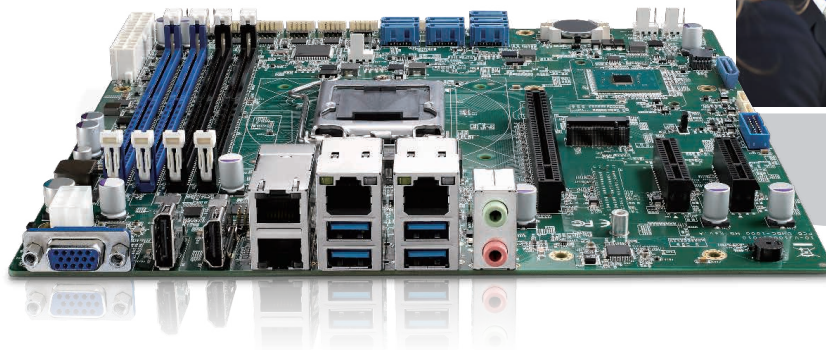


UMBC-1100

**9th Gen Intel® Xeon®/Core™ i7/i5/i3 Processor (Coffee Lake Refresh)
MicroATX Motherboard with Intel® C246 Chipset**

- LGA1151 socket supports 9th Gen Intel® Xeon®/Core™ i7/i5/i3 processor (Coffee Lake Refresh) with Intel® C246 chipset
- Supports DDR4 2666/2400MHz U-DIMM memory, up to 128GB (ECC/Non-ECC)
- Display : VGA, DisplayPort and HDMI display interfaces, up to 4K resolution
- 4 Independent GigE LAN, iAMT 12.0 supported
- Supports PCI Express Gen 3 : 1 PCIe x16, 2 PCIe x4, 1 M.2
- 6 USB 3.1, 4 USB 2.0, 5 COM RS-232/422/485, 8 SATA III, 16 GPIO
- Supports RAID 0, 1, 5, 10 data protection
- Supports case open detection
- Optional supports TPM 2.0/1.2



Smart Manufacturing



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Gaming



Self-Service Kiosk



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Specifications

System

Processor	8 cores Intel® Xeon®/Core™ i7/i5/i3 processor (CFL-R S), up to 12M Cache, 3.7GHz
Chipset	Intel® C246
BIOS	AMI
SIO	IT8786E
Memory	4 DDR4 2666/2400/2133 MHz U-DIMM, up to 128GB (ECC/Non-ECC)
OS	Windows 10, Linux

Graphics

Processor	Intel® UHD Graphics 630
Interface	- VGA : Up to 1920 x 1200 @60Hz - DisplayPort : Up to 4096 x 2160 @60Hz - HDMI : Up to 4096 x 2160 @24Hz

Ethernet

LAN 1	Intel® I219LM GigE LAN supports iAMT 12.0
LAN 2	Intel® I211AT GigE LAN
LAN 3	Intel® I211AT GigE LAN
LAN 4	Intel® I211AT GigE LAN

Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

I/O Interface

Rear I/O	- 1 HDMI Connector - 1 DisplayPort Connector - 1 VGA Connector - 4 RJ45 Connector - 4 USB 3.1 Type A Connector
Internal I/O	- 5 COM RS-232/422/485 Header - 8 SATA Connector - 4 USB 2.0 Header - 2 USB 3.1 Header - 1 GPIO Header - 1 CPU Fan Header - 4 System Fan Header

Storage

SATA	8 SATA III (6Gbps) support S/W RAID 0, 1, 5, 10
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Expansion

PCIe x16	1 PCIe x16 Slot (Gen 3)
PCIe x4	2 PCIe x4 Slot (Gen 3)
M.2	1 M.2 Key M Socket (2280, PCIe x4)

Power

Power Input	+12V 7.25A +5V 0.58A +3.3V 0.27A 5VSB 0.07A
Power Type	ATX Input
Power Interface	- 1 24-pin ATX Power Connector - 1 8-pin 12V ATX Power Connector

Others

TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	243.8mm x 243.8mm (9.60" x 9.60")
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Environment

Operating Temp.	0°C to 60°C (-32°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% at 60°C
EMC	CE, FCC

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Packing List

UMBC-1100 MicroATX Motherboard	x1
Driver/User Manual DVD	x1
I/O Shield Bracket	x1
M.2 Device Screw	x1

Order Information

Model	PCH	U-DIMM	GigE LAN	COM	USB 3.1	USB 2.0	SATA III	M.2	PCIe x16	PCIe x4
UMBC-1100	C246	4	4	5	6	4	8	1	1	2

CPU List

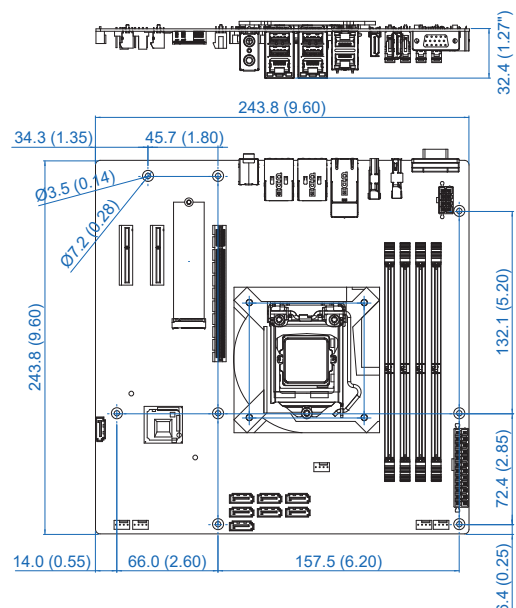
Series	CPU	Cores	GHz	TDP (W)	ECC RAM
Intel® Xeon®	E-2278GE	8	4.7	80	Yes
	E-2278GEL	8	3.9	35	
	E-2226GE	6	4.6	80	
	E-2176G	6	4.6	80	
	E-2124G	4	4.5	71	
Intel® Core™	i7-9700E	8	4.4	65	N/A
	i7-9700TE		3.8	35	
	i7-8700		4.6	65	
	i7-8700T	6	4	35	
	i5-9500E		4.2	65	
	i5-9500TE		3.6	35	
	i5-8500		4.1	65	
	i5-8500T		3.5	35	
	i3-9100E	4	3.7	65	
	i3-9100TE		3.2	35	
	i3-8100		3.6	65	
	i3-8100T		3.1	35	

Optional Accessories

COM Port Cable	COM Cable with DB9 Connector
SATA Data Cable	SATA Cable with 7P SATA Vertical SATA Connector
USB 2.0 Cable	USB Cable with Dual USB 2.0 Type A Connector
USB 3.1 Cable	USB Cable with Dual USB 3.1 Type A Connector
1U CPU Cooler	CPU Cooler for 1U Chassis
2U CPU Cooler	CPU Cooler for 2U Chassis

Dimensions & Drawing

Unit : mm (inch)



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