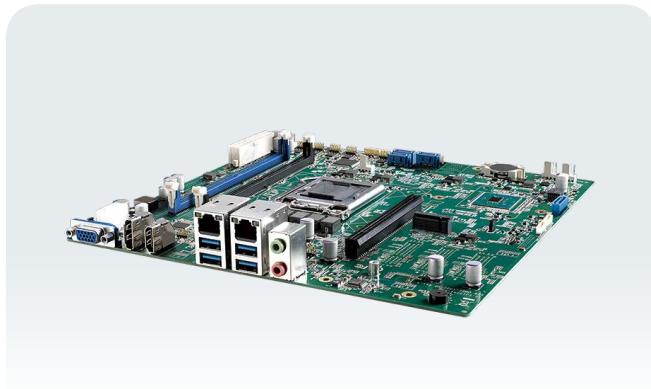


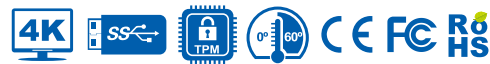
UMBC-1000

9th Gen Intel® Core™ i7/i5/i3 Processor MicroATX Motherboard with Intel® H310 Chipset, LGA 1151, U-DIMM DDR4, 2 GigE LAN, 4 USB 3.1, 3 USB 2.0, 2 COM RS-232/422/485, 16 GPIO, 1 PCIe x16, ATX Power



Features

- LGA1151 socket supports 9th Gen Intel® Core™ i7/i5/i3 Processor (Coffee Lake Refresh) with Intel® H310 chipset
- Supports DDR4 2666/2400MHz U-DIMM memory, up to 64GB (Non-ECC)
- Display : VGA, DisplayPort and HDMI display interfaces, up to 4K resolution
- 2 Independent GigE LAN, iAMT 12.0 supported
- 4 USB 3.1, 3 USB 2.0, 2 COM RS-232/422/485
- 4 SATA III, 16 GPIO
- Expansion : 1 PCIe x16 (Gen 3)
- Supports case open detection
- Optional supports TPM 2.0/1.2



Specifications

System	
Processor	Intel® Core™ i7/i5/i3 processor (CFL-R S/CFL-S), up to 12M Cache, 3.7GHz
Chipset	Intel® H310
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 2666/2400/2133 MHz U-DIMM, up to 64GB (Non-ECC)
Graphics	
Graphics Processor	Intel® UHD Graphics 630
Interface	<ul style="list-style-type: none"> ▪ 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
Audio	
Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out
I/O Interface	
Front I/O	<ul style="list-style-type: none"> ▪ 1 HDMI Connector ▪ 1 DisplayPort Connector ▪ 1 VGA Connector ▪ 2 RJ45 Connector ▪ 4 USB 3.1 Type A Connector
Internal I/O	<ul style="list-style-type: none"> ▪ 2 COM RS-232/422/485 Header ▪ 4 SATA Connector ▪ 3 USB 2.0 Header ▪ 1 GPIO Header ▪ 1 CPU Fan Header ▪ 4 System Fan Header
Storage	
SATA	4 SATA III (6Gbps)
Expansion	
PCIe x16	1 PCIe x16 Slot (Gen 3)

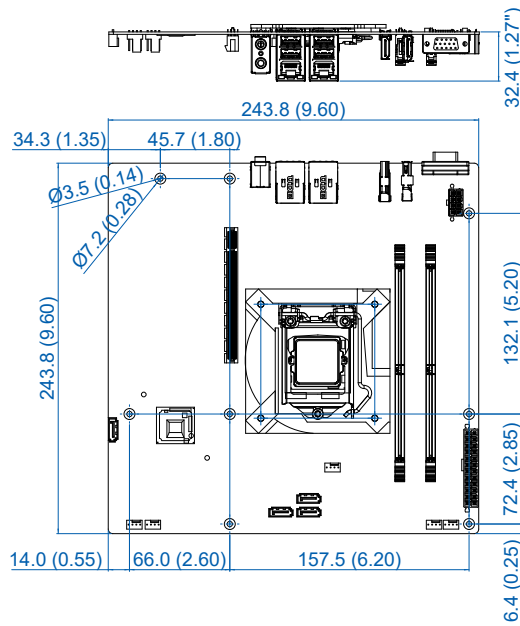
Power	
Power Input	+12V 7.25A +5V 0.58A +3.3V 0.27A 5VSB 0.07A
Power Type	ATX Input
Power Interface	<ul style="list-style-type: none"> ▪ 1 24-pin ATX Power Connector ▪ 1 8-pin 12V ATX Power Connector
Others	
TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Software Support	
OS	Windows 10, Linux
Mechanical	
Dimensions (W x L)	244mm x 244mm (9.6" x 9.6")
Environment	
Operating Temperature	0°C to 60°C (-32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% at 60°C
Certification	CE, FCC

Packing List

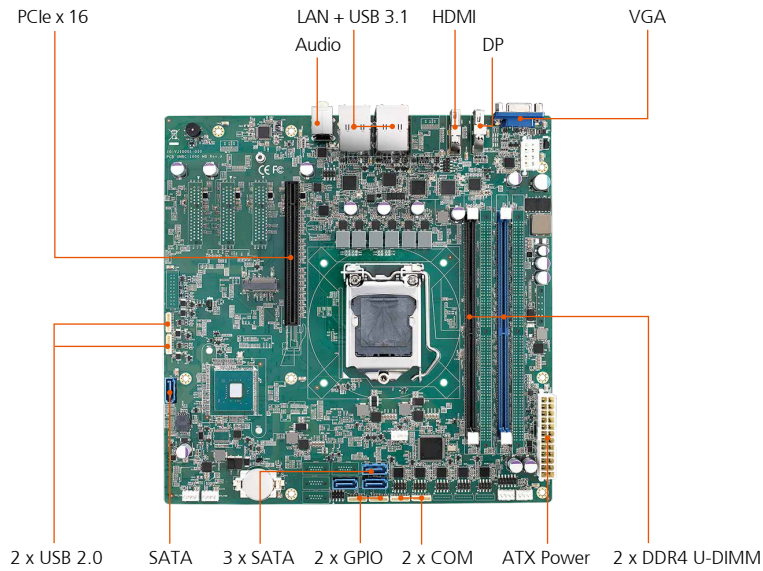
UMBC-1000 MicroATX Motherboard	x1
Driver/User Manual DVD	x1
I/O Shield Bracket	x1
M.2 Device Screw	x1

Dimensions

Unit : mm/ inch



Top View



Order Information

UMBC-1000	UMBC-1000 MicroATX Motherboard, Intel® H310 PCH, 2 GigE LAN, 2 COM, 4 USB 3.1, 3 USB 2.0
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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

CPU List

Series	CPU	Cores	GHz	TDP (W)	CPU	Cores	GHz	TDP (W)	ECC RAM
Intel® Core™	i7-8700	6	4.6	65	i7-9700E	8	4.4	65	N/A
	i7-8700T	6	4	35	i7-9700TE		3.8	35	
	i5-8500	6	4.1	65	i5-9500E	6	4.2	65	
	i5-8500T	6	3.5	35	i5-9500TE		3.6	35	
	i3-8100	4	3.6	65	i3-9100E	4	3.7	65	
	i3-8100T	4	3.1	35	i3-9100TE		3.2	35	