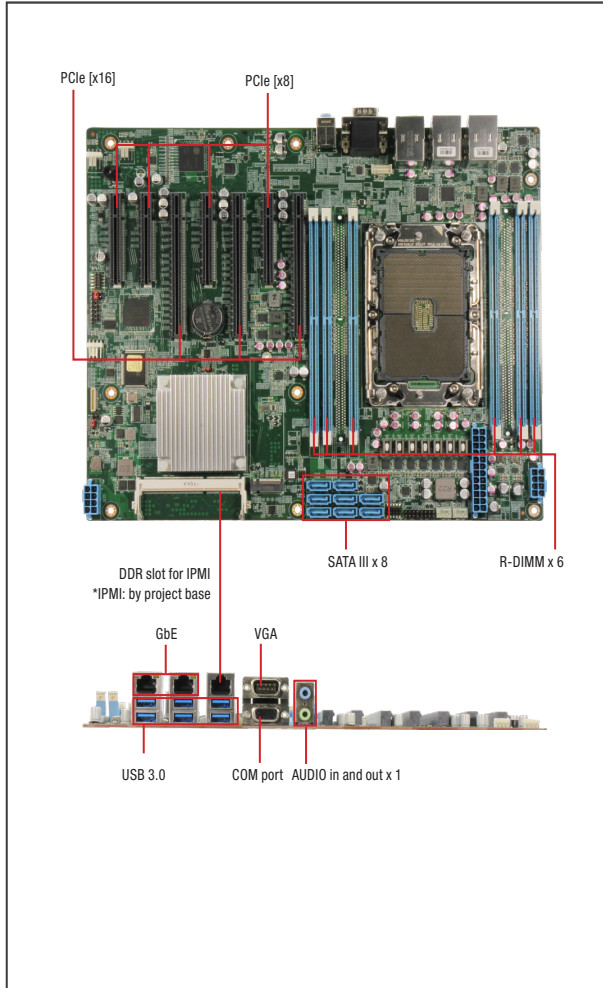


# ARES-WHIO

Intel® Whitely Platform Server Board, Support Intel 3rd Gen. Xeon® Scalable Ice Lake-SP CPU

Industrial Server Board



## Specifications

System	
Form Factor	ATX Sever Board Whitely Platform
Processor	Single Intel® Xeon® Processor Ice Lake-SP processor, supports up to 270W
System Memory	DDR4 2666MHz R-DIMM Slot x 6, supports up to 192GB (32GB per DIMM)
Chipsset	Intel®C621A
Ethernet	Intel® i210 Gigabit Ethernet x 2
COM	RS-232 x 1
BIOS	AMI BIOS
Serial ATA	SATA III port x 8
Audio and VGA	1
Expansion Interface	PCIe 1: 1 x PCIe x16 (Gen4 x16) slot PCIe 2: 1 x PCIe x8 (Gen3 x4) slot PCIe 3: 1 x PCIe x16 (Gen4 x16) slot PCIe 4: 1 x PCIe x8 (Gen4 x4) slot PCIe 5: 1 x PCIe x16 (Gen4 x16) slot PCIe 6: 1 x PCIe x8 (Gen3 x4) slot PCIe 7: 1 x PCIe x8 (Gen4 x8) slot
Watchdog Timer	1~255 steps by software programming
RTC	Internal RTC
System Fan	4-pin fan headers x 5(up to 5 fans)
Front I/O Panel	N/A
Rear I/O Panel	USB 3.0 x 6, 1Gb RJ45 LAN x 2, AUDIO in and out x 1, VGA x 1
Color	N/A
Power Supply	ATX
Dimension	12.0" x 9.6" (305mm x 244 mm)

## Features

- ATX Server Board
- Single Intel 3rd Gen. Xeon® Scalable Ice Lake-SP processor
- Intel® Communications Chipset C621A
- DDR4 2666 MHz R-DIMM Slot x 6
- SATA III x 8, supporting RAID 0, 1, 5, 10
- M.2 2280 M-Key with PCIe [x4] signal
- Dual LAN with Intel® i210 Gigabit Ethernet Controller
- Audio In/Out and VGA
- TPM, DIO pin header reserved, and Case Open Support
- USB 3.0 x 6
- PCIe Gen 4 [x16] x 3, PCIe Gen 4 [x8] x 1, PCIe Gen 4 [x4] x 1, PCIe Gen 3 [x4] x 2
- 4-pin fan headers (up to 5 fans) x 5
- Operating Temperature Range 32°F ~ 140°F (0°C ~ 60°C)



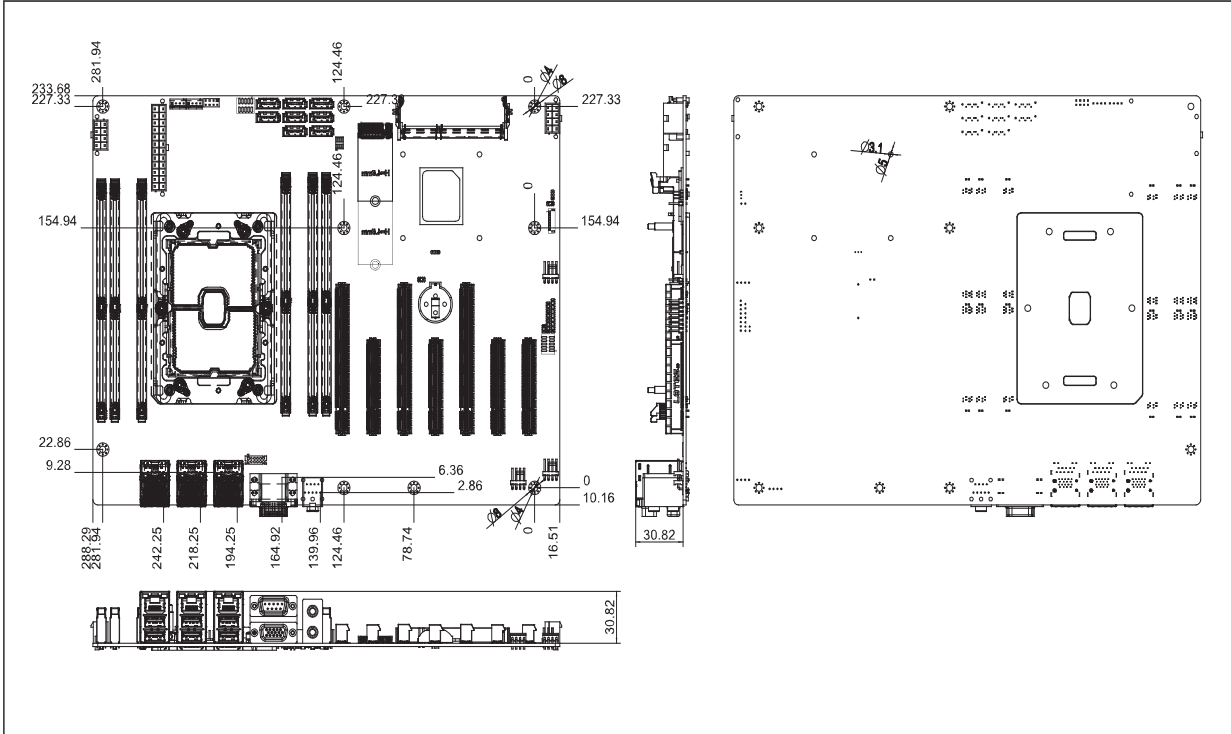
Power Consumption	269W (Based on Intel® Xeon® Platinum 8352S)
MTBF (Hours)	292,321
Display	
Chipset	SM750
Graphic Engine	N/A
Resolution	1920x1080 (WIN Server 2019); 800x600 (CentOS 7.3)
Connector	VGA
I/O	
Serial Port	COM x 1 Pin
K/B and Mouse	N/A
USB	USB 3.0 x 6
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 g rms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation

# ARES-WH10

10

Industrial Server Board

**Dimension** Unit: mm



## Ordering Information

Part Number	Chipset	RAM	Storage	RAID Support	Display	LAN	USB	Serial port	Expansion interface	Power requirement
ARES-WH10-A10-00	Lewisburg C621A	288pin R-DIMM slot x 6	Supporting SATA slot x 8, M.2 M-Key 2280 x 1	RAID 0,1,5,10	VGA x 1	GbE x 2	USB 3.0 x 6	COM x1	[PCI-E 3.0 x 16] x 3, [PCI-E 3.0 x 4]use [PCI x 8 Slot] x 3, [PCI-E-3.0 x 8] x 1	ATX

## Packing List

- ARES-WH10 server board x1
- CPU carrier x1
- I/O Cable x2
- I/O Shield x1

## Optional Accessories

- 1709070800  
SATA CABLE.7P Pitch 1.27mm.80cm.W/Lock

## 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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