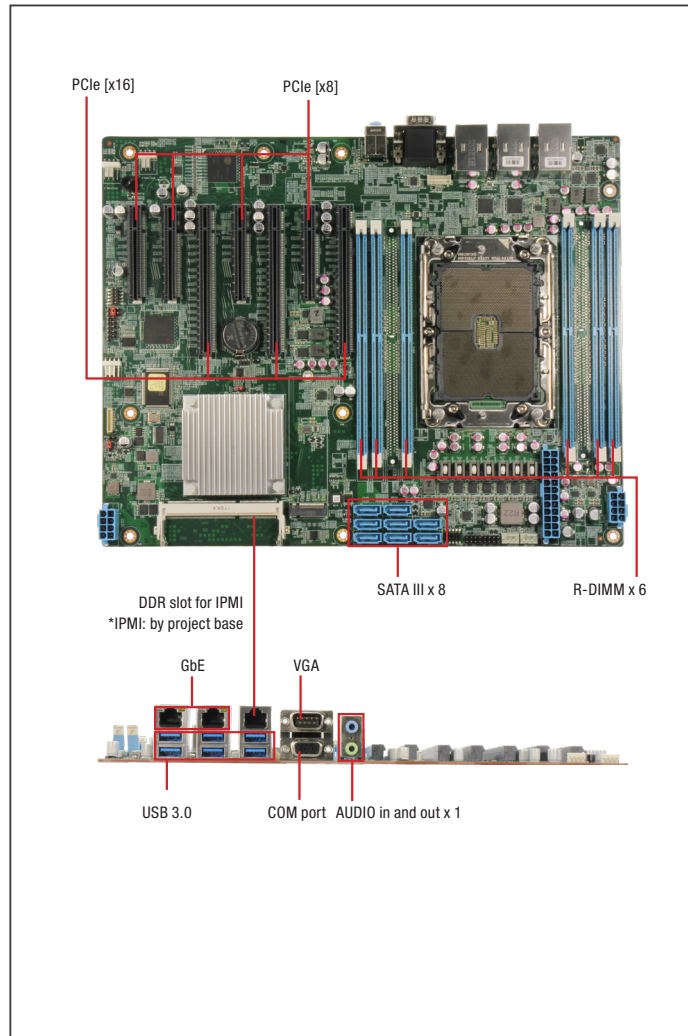


ARES-WHIO

Intel® Whitley Platform Server Board, Support Xeon® Single Ice Lake-SP CPU



Features

- ATX Server Board
- Single Intel® Xeon® Processor Ice Lake-SP processor
- Intel® Communications Chipset C621A
- DDR4 2666 MHz R-DIMM Slot x 6
- SATA3 (6 Gbps) ports x 8; RAID 0,1,5,10
- M.2 M-Key 2280 with PCIe x 4 Signal
- Dual LAN with Intel® i210 Gigabit Ethernet Controller
- Audio In Out and VGA x 1
- TPM (Option), Digital IO pin header reserved, and Case open Support
- 6 USB 3.0 ports (6 rear); USB2.0 (2 rear to USB3.0, 2 by header to USB2.0) (BOM option)
- COM Port x 1
- [PCI-E 3.0 x 16] x 3, [PCI-E 3.0 x 4]use [PCI x 8 Slot] x 3, [PCIE-3.0 x 8] x 1
- 4-pin fan headers (up to 5 fans) x 5, CPU / System Overheat LED, Suspend static indicator LED
- Operating Temperature Range 2°F ~ 140°F (0°C ~ 60°C)



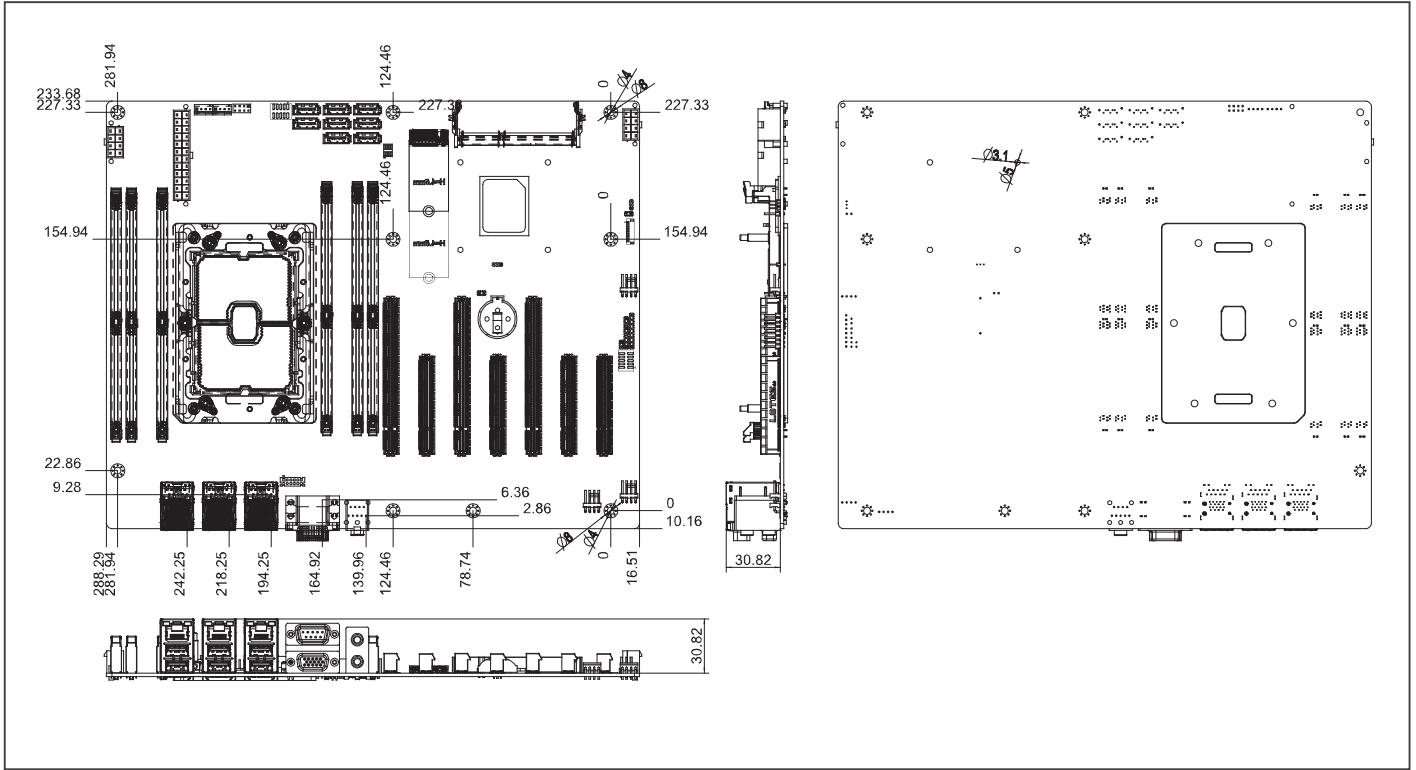
Display	
Chipset	Intel C621A
Graphic Engine	TBD
Resolution	TBD
Connector	VGA
I/O	
Serial Port	COM x 1 Pin
K/B and Mouse	N/A
USB	USB 3.0 x 6
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
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

Specifications

System	
Form Factor	ATX Sever Board Whitley Platform
Processor	Single Intel® Xeon® ICE LAKE-SP Processors
System Memory	DDR4 2666 MHz R-DIMM Slot x 6
Chipset	Intel®C621A
Ethernet	Intel® i210 Gigabit Ethernet x 2
COM	Pin header x 1
BIOS	AMI BIOS
Serial ATA	SATA III port x 8
Audio and VGA	1
Expansion Interface	[PCI-E 3.0 x 16] x 3, [PCI-E 3.0 x 4]use [PCI x 8 Slot] x 3, [PCIE-3.0 x 8] x 1
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	USB 3.0 x 6 1 Gb RJ45 LAN x 2 AUDIO in and out x 1, VGA x 1
Rear I/O Panel	N/A
Color	N/A
Power Supply	ATX
Dimension	305 × 244 mm
Power Consumption	TBD
MTBF (Hours)	TBD

Dimension

Unit: mm



Ordering Information

Part Number	Chipset	RAM	Storage	RAID Support	Display	LAN	USB	Serial port	Expansion interface	Power requirement
ARES-WHIO-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-WHIO 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