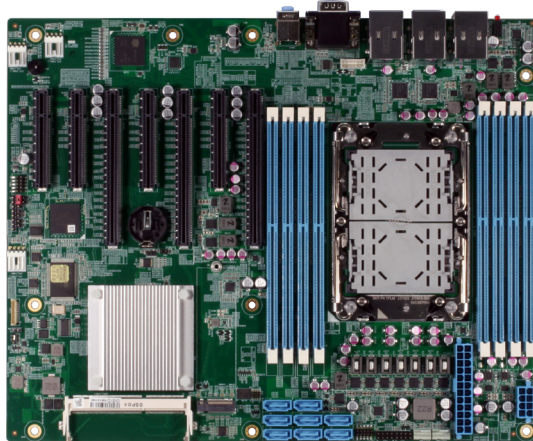


ARES-WHIO PRELIMINARY

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



Features

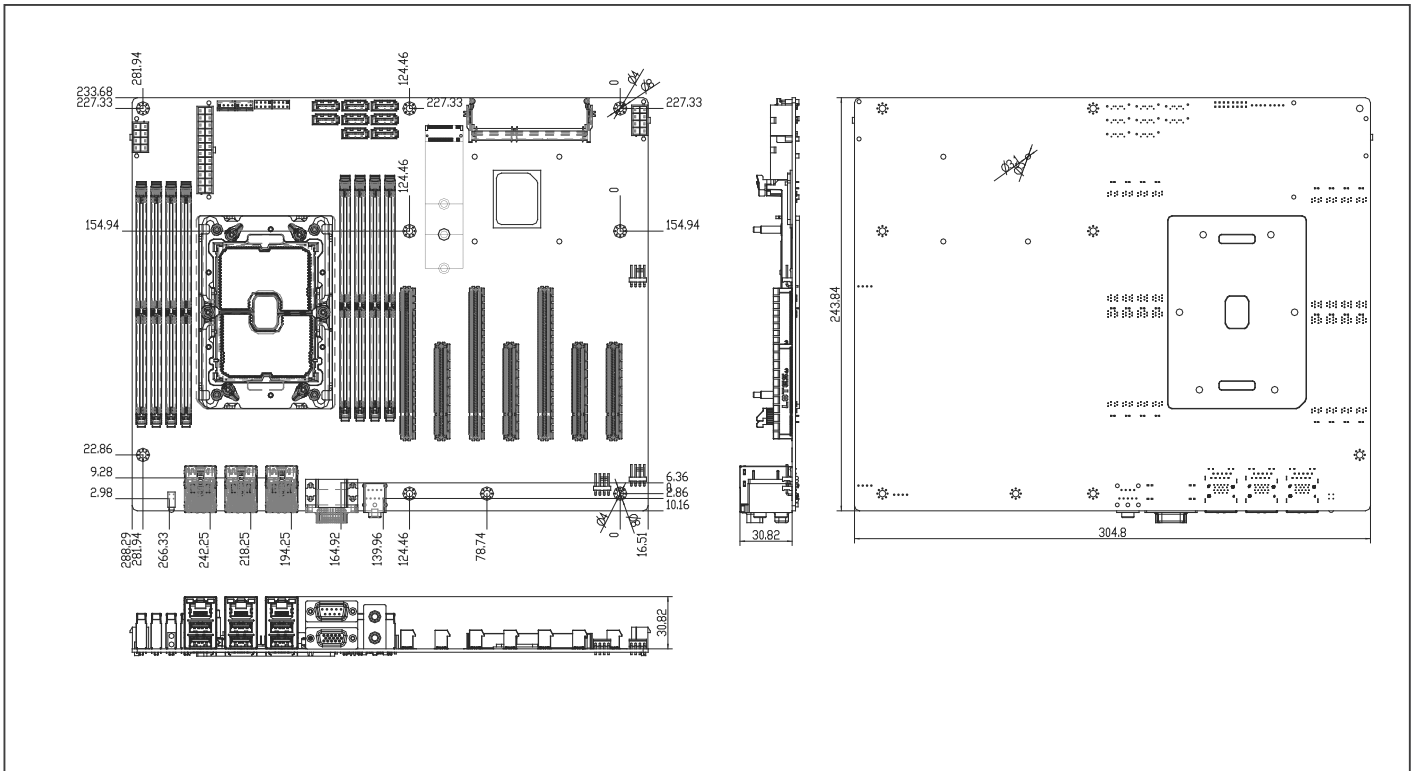
- ATX Server Board
- Single Intel® Xeon® Processor Ice Lake-SP processor
- Intel® Communications Chipset C621A
- 8 x DDR4 2133/2400/2666 MHz DIMM Slot
- Intel Barlow Pass Optane DC Persistent Memory Up to 1TB
- 8 x SATA3 (6 Gbps) ports; RAID 0,1,5,10
- M.2 M-Key 2280 with PCIe x 4 Signal
- Dual LAN with Intel® i210 Gigabit Ethernet Controller
- External Dual USB 3.0 ports
- Audio In Out and VGA x 1
- IPMI Module support (Option)
- TPM D/I/O 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)
- 1 x COM Port (1 x header)
- 3 x [PCI-E 3.0 x 16], 3 x [PCI-E 3.0 x 4]use [PCI x 8 Slot], 1 x [PCIE-3.0 x 8]
- 5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Low noise fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for on/off control, Status monitoring for speed control
- Monitoring for CPU and chassis environment, CPU thermal trip support, I2C temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI
- CPU / System Overheat LED, Suspend static indicator LED
- Operating Temperature Range 0°C ~ 50°C (32°F ~ 122°F)
- +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT

Specifications

System	
Form Factor	ATX Sever Board Whitely Platform
Processor	Single Intel® Xeon® ICE LAKE-SP Processors
System Memory	8 x DDR4 2133/2400/2666 R-DIMM Slot
Chipset	Intel®C621A
Ethernet	Intel® i210 Gigabit Ethernet x 2
COM	1 x Pin header
BIOS	AMI BIOS
Serial ATA	SATA II port x 8
Audio and VGA	1
Expansion Interface	3 x [PCI-E 3.0 x 16], 3 x [PCI-E 3.0 x 4]use [PCI x 8 Slot], 1 x [PCIE-3.0 x 8]
Watchdog Timer	1~255 steps by software programming
RTC	Internal RTC
System Fan	5x 4-pin fan headers (up to 5 fans)
Front I/O Panel	USB 3.0 x 2 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	
Dimension	305 × 244 mm
Power Consumption	TBD
MTBF (Hours)	TBD

Display	
Chipset	Intel C621A
Graphic Engine	TBD
Resolution	TBD
Connector	VGA
I/O	
Serial Port	COM x 1 Pin Header
K/B and Mouse	N/A
USB	USB 3.0 x 2
Environment	
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
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

Dimension Unit: mm



Ordering Information

- TBD

Packing List

- ARES-WHIO

Optional Accessories

- TBD