

## Specifications

| System              |  |
|---------------------|--|
| Form Factor         | ATX Server 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)   |
| Chipset             | 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<br>PCIE 2: 1 x PCIe x8 (Gen3 x4) slot<br>PCIE 3: 1 x PCIe x16 (Gen4 x16) slot<br>PCIE 4: 1 x PCIe x8 (Gen4 x4) slot<br>PCIE 5: 1 x PCIe x16 (Gen4 x16) slot<br>PCIE 6: 1 x PCIe x8 (Gen3 x4) slot<br>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

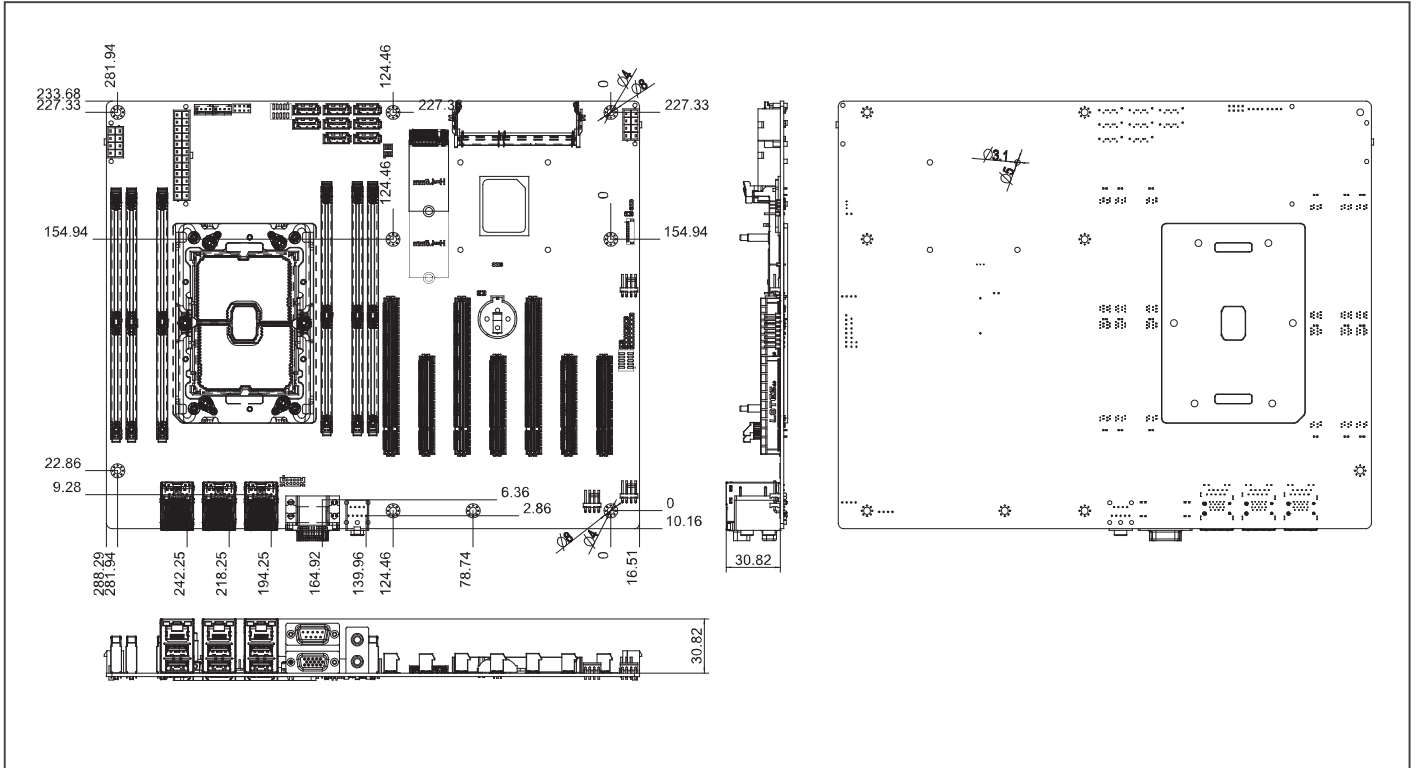
- ATX Server Board
- Single Intel 3rd Gen. Xeon® Scalable Ice Lake-SP processor
- Intel® Communications Chipset C621A
- DDR4 2666 MHz R-DIMM Slot x 6
- SATA III x 8, supporting RAID 0, 1, 5, 10
- M.2 2280 M-Key with PCIe [x4] signal
- Dual LAN with Intel® i210 Gigabit Ethernet Controller
- Audio In/Out 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)<br>1.5 g rms/ 5 ~ 500Hz / non operation                      |
| Shock                 | 10 G peak acceleration (11 m sec. duration), operation<br>20 G peak acceleration (11 m sec. duration), non operation |

## 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,<br>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,<br>[PCI-E 3.0 x 4]use [PCI x 8 Slot] x 3,<br>[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