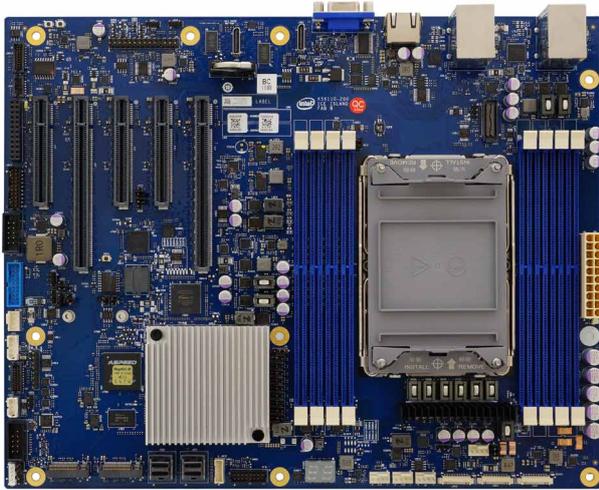


IS-5101

Workstation Mainboard

AEWIN Technologies Co., Ltd.

Single Intel® Ice Lake-SP Xeon® Scalable Processor and Intel® PCH C621A ATX mainboard, support 8x 3200MHz DDR4 RDIMM, support up to 2x oversized dual-slot PCIe x16, 8x SATA from MiniSAS HD, IPMI, USB 3.0, 2x 1GbE, 1x Console, 1x VGA, 2x M.2



Features

- Single 3rd Gen Intel® Xeon® Scalable Processor
- 8x DDR4 RDIMM/LRDIMM Memory slots
- Support up to 2x dual-slot+ GPUs or 5x PCIe single-slot add-on cards
- On-board BMC for IPMI and management



Description

IS-5101 is a single 3rd Gen Intel® Xeon® Scalable Processor mainboard. AEWIN co-developed this platform with Intel as the Ice Lake-SP single socket CRB, codename Ice Island. The new generation of Xeon processors brings significant improvement in core count and IPC, elevating the overall performance to a new level. With total of 64x PCIe Gen4 lanes, it offers enough bandwidth for any PCIe based accelerators. IS-5101 is designed to accommodate 2x oversized dual-width accelerators such as 2x RTX-3080, or workstation/datacenter-oriented portfolio such as A30 or A100. With single-width PCIe add-on cards, it can support 2x with full PCIe Gen4 x16 bandwidth, plus 3x more with PCIe Gen4 x8 bandwidth. This allows the IS-5101 to flexibly support variety of workloads depending on the configuration. With on-board BMC, you can enjoy the ease of management of server class hardware.

Specifications

▼ Processor System

CPU	Support Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP)
Chipset	Intel® C621A
CPU	AMI 64Mb SPI BIOS

▼ Memory

Technology	Total 8x RDIMMs (8x memory channels) ECC & Registered DDR4 2666/2933/3200 MHz memory Support Intel Optane™ Persistent Memory 200 Series module
Capacity	Up to 4TB

▼ Expansion

Onboard Expansion Slots	2x PCIe Gen4 x16 slots 3x PCIe Gen4 x8 slots 2x OCuLink x4
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▼ I/O

USB	2x USB 3.0 (Rear I/O)
Serial	1x RJ45 Console port (COM 1) 1x VGA port

▼ Ethernet

GbE Ethernet	2x 1GbE RJ45 ports + 1x MGMT/IPMI port
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▼ Storage

SATA	2x MiniSAS HD connector (8x SATA support)
M.2	2x M.2 (2280 M-key) PCIe Gen3 x2

▼ Power Supply

Connector	20pin 12V
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▼ Mechanical and Environment

Form Factor	4.5U Rack-mountable Desktop Workstation
LED	1x Power Button/LED 1x Reset Button 1x HDD LED 1x ID Button/LED
Dimension (W x D x H)	200mm(W) x 590 mm(D) x 430mm(H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	0 ~ 75°C (32 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Certification	CE/FCC

▼ Packing List

- 1x BIS-5101 unit
- 2x power cord