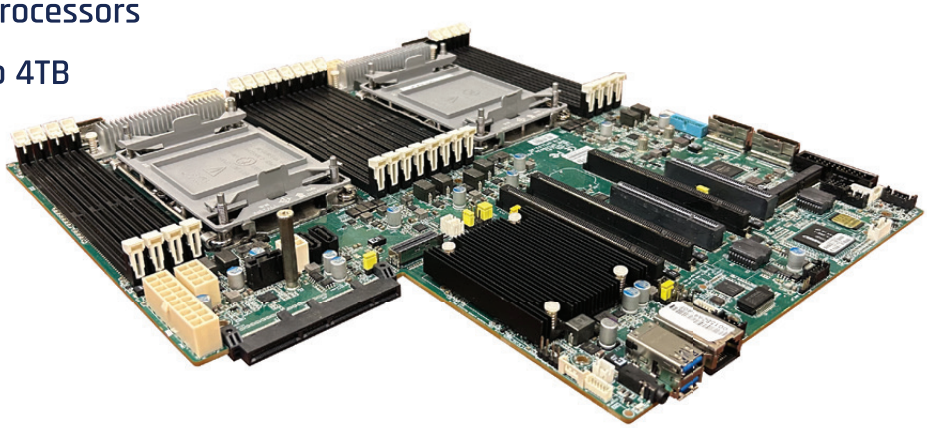
INDUSTRIAL

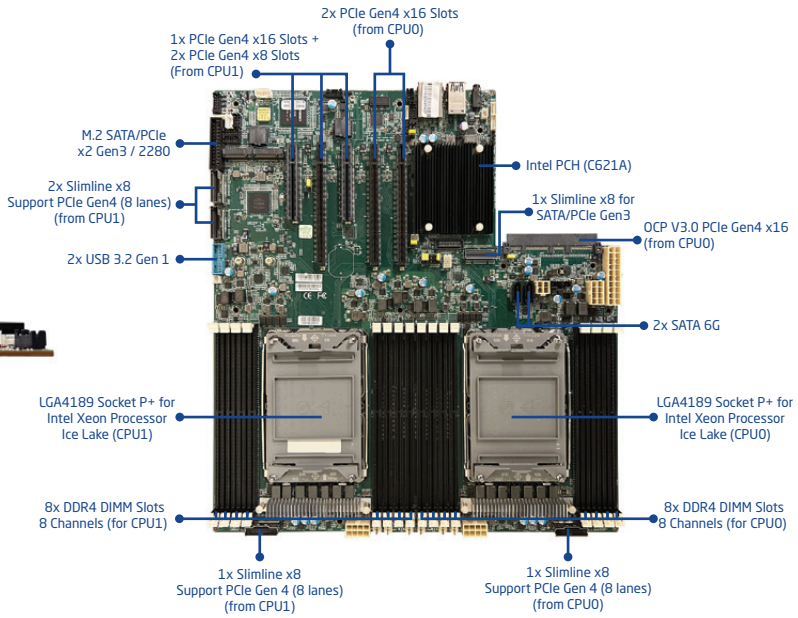
SERVER MOTHERBOARDS

C62EX

PRODUCT FEATURES

- C621A Chipset
- Dual Intel® 3rd Gen. Xeon scalable processors
- DDR4 U-DIMM memory 16 slots up to 4TB
- Three PCIe x16 slots
- Two SATA & 2 M.2 (SATA / NVMe)
- Two 1 GbE Ethernet ports
- Four USB 3.2
- TPM 2.0
- VGA video support





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INDUSTRIAL SERVER MOTHERBOARD

C62EX

Corvalent server board, the C62EX, features the latest Xeon® Scalable Processors for high performance and premium power efficiency, optimized for storage, security, and communications. With integrated microarchitecture, it supports PCIe Gen4 configurations, including 3 x 16 lanes, 2 x 8 lanes, 4 slimline x 8, and OCP 3.0 PCIe Gen4. It provides eight channels per CPU with a total of sixteen DIMM slots supporting up to DDR4 3200/2933MHz. Equipped with groundbreaking technologies like Intel® Next Generation Microarchitecture (AVX-512, VMD), Speed Shift Technology, and UPI link speeds up to 11.2GT/s, the C62EX server board enables a significant performance leap for next-generation server solutions.

TECHNICAL SPECIFICATIONS

Form Factor	EATX	12" x 13" (305mm x 330mm)
Chipset/Processor	Chipset	Intel® C621A
	CPU	Dual Intel® 3rd Gen Xeon Scalable processors (Ice Lake)
	Speed	N/A
	TDP	N/A
	Core/Threads	N/A
BIOS	BIOS	AMI® UEFI BIOS
Expansion Slots	PCI-Express	3 x PCIe x16
		2 x PCIe x8
		1 x OCP3.0
		3 x slimline x8
Memory	DIMM	16 xDDR4 3200/2933MHz RDIMM/LRDIMM up to 4096GB
		Intel® Optane™ DC Persistent Memory (Barlow Pass) support
On-Board Devices	SATA	2 x SATA with SATApower 8 x SATA by Slimline + 2 x SATA by M.2 (supports both SATA/PCIe by PCH HSIO)
	BMC	Aspeed AST2500 Intelligent Platform Interface 2.0 (IPMI 2.0) iKVM, Media Redirection, IPMI over LAN, Serial over LAN SMASH Support. HTML5, Redfish
	Graphics	Aspeed AST2500 VGA header
		PCIe VGA/2D Controller
		1920 x 1200@60Hz 32bpp
	Network Controller	Realtek RTL8211E GbE for BMC dedicated management port (NCSI shared NIC - reserved for OCP & I210 by jumper setting) Intel I210 GbE for BMC shared NIC management port by onboard connector (NCSI shared NIC - reserved for OCP V3.0)
Internal Connectors	USB	2 x USB3.2 Gen1x1
	M.2	2 x M.2-M 2280 (SATA/NVMe)
	Serial Ports	1 x RS-232 header
	Power	1 x 20pin ATX, 3 x 8pin ATX12V
	Other	6 x PWM fan, 1 x SPI header, 1 x PMBUS header, 1 x chassis intrusion, 1 x LPC header
Rear I/O	USB	2 x USB3.2 Gen1x1
	Ethernet	1GbE (RTL8211E)
	Serial Ports	1 RS-232 (phone jack)
	Power	N/A
Security	TPM2.0	NPCT750A
Environmental	Operating Temp.	0~55°C (32~131°F)
	Non Operating Temp	-40~75°C (-40-158°F)
	Operating Humidity	0%-90% relative humidity, non-condensing
Compliance	Certifications	FCC, CE, RoHS
Ordering	Part Number	C62EX

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