



I/O View



Dimensions

mm : 424.18 x 433.87 / inches : 16.7 x 17.081

The Lynx server board offers the latest Intel® Xeon® Scalable Processors technology solutions with compelling performance and provides premium power efficiency, which is optimized for efficient performance platforms (storage, security and communications infrastructure).

By implementing Intel® Xeon® Scalable Processors, fully integrated microarchitecture with AIC MAX I/O 2.0 which support up to 96 lanes of PCIe Gen3, Lynx server board can maximize your I/O intensive application demand, providing six channels per CPU with total twenty-four DIMM slots deployment which can support up to DDR4 2933/2666/2400MHz.

Featured with ground breaking technologies including Intel® Next Generation Microarchitecture and Instruction Set (AVX-512, VMD, QAT - optional by PCH SKU), Speed Shift Technology, UPI link speeds up to 10.4GT/s, the Lynx server board enable next generation server solutions with an incredible leap in performance.

Features

- Supports Intel® Xeon® Scalable Processors for highest server performance and improved power efficiency
- Supports 24 DDR4 DIMM slots for maximum memory performance
- AIC MAX I/O supports up to 96 PCIe Gen3 lanes (48 lanes from CPU0 + 48 lanes from CPU1); both 16 lanes will be shared with OCP Mezzanine V2.0
- Supports two OCP Mezzanine V2.0 up to PCIe Gen3 x16 extension (shared from MAX I/O)
- Onboard dual GbE ports come from 2 x Intel® Ethernet Controller I210
- Supports two CRPS PSU direct connection for power input
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for 5+ year long life

Specifications

System	Processor Support	<ul style="list-style-type: none"> Intel® Xeon® Scalable Processors (Cascade Lake Refresh/Cascade Lake/Skylake) Support Intel® Storm Lake 100Gbps Host Fabric Interface, Skylake-F SKU CPU
	CPU TDP	205W
	UPI Speeds	10.4 GT/s, 9.6 GT/s
	Socket Type	Socket P0 (LGA-3647 Socket)
	System Memory	<ul style="list-style-type: none"> 6 x memory channels per CPU, 2 x DIMM per channel 24 x DIMM slots support: <ul style="list-style-type: none"> DDR4 2933/2666/2400MHz RDIMM/LRDIMM <ul style="list-style-type: none"> up to 384GB RDIMM SRx4 up to 768GB RDIMM DRx4 up to 3072GB RDIMM 3DS 8Rx4/QRx4 up to 1536GB LRDIMM QRx4 up to 3072GB LRDIMM 3DS 8Rx4/QRx4 Intel® Optane™ DC Persistent Memory (Apache Pass) support
Expansion Slots	<ul style="list-style-type: none"> 2 x AIC MAX I/O support: PCIe Gen3 total 96 lanes; (each 48 lanes from CPU0 & CPU1) 2 x OCP Mezzanine V2.0 support PCIe Gen3 \ x16 (share with MAX I/O) 1 x OCP Mezzanine supports KR (optional by PCH C624/C622 SKUs), as 10GbE (KR/SFI/XFI) or 1GbE (KX) 2 x NGFF(M.2) M-Key(2280, 2242 by additional bracket) support SATA/PCIe x2 	
System BIOS	BIOS Type	Insyde UEFI BIOS
	BIOS Features	<ul style="list-style-type: none"> ACPI PXE WOL AC loss recovery IPMI KCS interface SMBIOS Serial console redirection BIOS Boot Specification BIOS Recovery Mode SRIOV iSCSI TPM PCIe Hotplug

On-board Devices	SATA	<ul style="list-style-type: none"> Intel® Lewisburg PCH on-chip solution 10 x SATA 6.0 Gb/s RAID 0, 1, 5, 10 support by Intel RSTe
	BMC	<ul style="list-style-type: none"> Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor Baseboard Management Controller Intelligent Platform Interface 2.0 (IPMI 2.0) iKVM, Media Redirection, IPMI over LAN, Serial over LAN SMASH Support HTML5 Redfish
	Network Controller	<ul style="list-style-type: none"> Two Intel I210 Ethernet Controller support dual port GbE RJ45 connectors Networking options provided via OCP Mezzanine extension Realtek RTL8201E 10/100Mbps Ethernet PHY for BMC dedicated management port
	Graphics	<ul style="list-style-type: none"> Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor PCIe VGA/2D Controller 1920x1200@60Hz 32bpp
Input/Output	Serial ATA	10 x SATA 6.0 Gb/s ports
	LAN	<ul style="list-style-type: none"> 2 x GbE RJ45 1 x 10/100M RJ45 dedicated to BMC management
	USB	<ul style="list-style-type: none"> 2 x USB 3.0 Type A connectors 2 x USB internal pin-header to support total 4 x USB3.0/USB2.0 1 x USB internal pin-header to support 2 x USB 2.0
	VGA	<ul style="list-style-type: none"> 1 x external VGA port 1 x internal VGA pin-header (share with external VGA port)
	Serial Port	<ul style="list-style-type: none"> 1 x external Micro-USB Type B for COM port 2 x internal COM pin-headers
	Others	1 x TPM 2.0 onboard