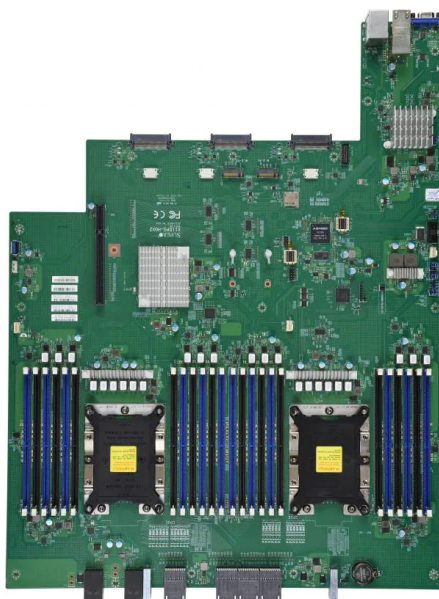# X11DPG-HGX2 (For SuperServer Only)

GPU Serverboard

Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors,
   Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s

2. Intel® C621

3. Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz, in 24 DIMM slots;
   Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)

4. 2 PCI-E 3.0 x16
   M.2 Interface: 2 PCI-E 3.0 x4
   M.2 Form Factor: 2280/22110
   M.2 Key: M-Key

5. Dual LAN with 10GBase-T with Intel® X540 10GbE Controller

6. Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

7. 1 VGA D-Sub Connector port

Specifications

Product SKUs

MBD-X11DPG-HGX2	X11DPG-HGX2

Physical Stats

Form Factor	Proprietary
Dimension	21.94" x 16.85" (55.73cm x 42.8cm)

Processor

CPU	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s
Core	Up to 28 cores
Note	BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity	24 DIMM slots Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Memory Type	2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	LRDIMM: 128GB RDIMM: 64GB
Memory Voltage	1.2V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	Intel® C621
SATA	Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2500
Network Controllers	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller

Input / Output

SATA	8 SATA3 (6Gbps) port(s)

Expansion Slots

PCI-E	2 PCI-E 3.0 x16
M.2	M.2 Interface: 2 PCI-E 3.0 x4 Form Factor: 2280/22110 Key: M-Key

System BIOS

BIOS Type	AMI UEFI

Management

Software	SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0

PC Health Monitoring

Voltage	Monitors CPU voltages, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages
LED	BMC/IPMI Heartbeat LED CPU / System Overheat LED
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support
FAN	PWM fan speed control
Other Features	UID ACPI power management

USB	• 1 USB 3.2 Gen1 port(s) (1 via header) • 2 USB 3.0 port(s) (2 rear)
Video Output	• 1 VGA D-Sub Connector port(s)
TPM	• 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	**Part Number**	**Qty**	**Description**
Motherboard	MBD-X11DPG-HGX2	1	X11DPG-HGX2 Motherboard

Server (Optimized for X11DPG-HGX2)

Server Name
SYS-9029GP-TNVRT