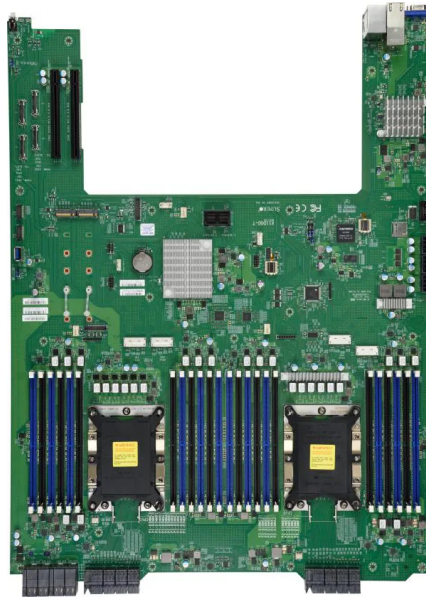# X11DGO-T (For SuperServer Only)

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 (2933MHz
   in two DIMMs per channel supported on Rev 1.10 MB only)_x000D_ ;
   Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)

4. 2 PCI-E 3.0 x16
   4 PCI-E 3.0 x16 to midplane

   M.2 Interface: 2 PCI-E 3.0 x4
   M.2 Form Factor: 2260/2280/22110
   M.2 Key: M-Key
   M.2 Type: NVMe

5. Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

6. Dual LAN with Intel® X540 10GBase-T Ethernet Controller

7. 1 VGA port

Specifications

Product SKUs

MBD-X11DGO-T	▪ X11DGO-T

Physical Stats

Form Factor	▪ Proprietary
Dimension	▪ 22.78" x 17" (57.86cm x 43.18cm)

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	▪ *2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro ▪ *2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro 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 ▪ (2933MHz in two DIMMs per channel supported on Rev 1.10 MB only) 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 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Expansion Slots

PCI-E	▪ 2 PCI-E 3.0 x16 ▪ 4 PCI-E 3.0 x16 to midplane
M.2	▪ M.2 Interface: 2 PCI-E 3.0 x4 ▪ Form Factor: 2260/2280/22110 ▪ Key: M-Key ▪ M.2 Type: NVMe

System BIOS

BIOS Type	▪ AMI UEFI

Management

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

PC Health Monitoring

Voltage	▪ Supports system management utility, Monitors CPU voltages, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages, 2 fans with tachometer status monitoring
LED	▪ UID/Remote UID ▪ CPU / System Overheat LED
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support
FAN	▪ 2x 4-pin fan headers (up to 2 fans) ▪ PWM fan speed control ▪ Support 3-pin fans (w/o speed control)
Other Features	▪ UID ▪ RoHS ▪ Node Manager Support ▪ ACPI power management

IPMI	ASPEED AST2500
Graphics	ASPEED AST2500 BMC
Network Controllers	Dual LAN with Intel® X540 10GBase-T Ethernet Controller

Input / Output

SATA	8 SATA3 (6Gbps) port(s)
LAN	2 RJ45 10GBase-T ports
USB	1 USB 3.2 Gen1 port(s) (1 type A) 2 USB 3.0 port(s) (2 rear)
Video Output	1 VGA port(s)
Serial Port	1 COM Port(s) (1 header)
TPM	1 TPM Header

Parts List

Parts List (Bulk Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X11DGO-T	1	X11DGO-T Motherboard

Chassis (Optimized for X11DGO-T)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
					🔴 SCR422BG-1 Heatsink:SNK-P0068APS4

🔴 = *Most optimized Chassis for SuperServer Configuration*
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

Server (Optimized for X11DGO-T)

Server Name
SYS-4029GP-TVRT