# X11SPG-TF



## **GPU Serverboard**

# **Key Features**

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Single Socket LGA-3647 (Socket P)
supported, CPU TDP support Up to 205W TDP
Intel® C621 Chipset
Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots
3 PCle 3.0 x16
2x M.2 NGFF connectors
M.2 Interface: PCle 3.0 x4
Form Factor: 2280
Key: M-Key
2 10GbE LAN ports
6 SATA (6Gbps)
2 SuperDOM with built-in power
I/O: 1 VGA, 1 COM, TPM header
5 USB 3.0 (2 rear, 1 Type-A, 2 via header), 4 USB 2.0 (2 rear, 2 via headers)

Optimized Servers

<u>SYS-1019GP-TT</u>

<u>SYS-5019GP-TT</u>

# **Specifications**

Product SKUs MBD-X11SPG-TF

Physical Stats

Form Factor

Proprietary

Dimension

7.71" x 16.64" (19.58cm x 42.27cm)

#### Processor

CPU

2nd Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Processors and Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Processors

Single Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP

#### Core

Up to 28 cores

## Note

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

#### System Memory

Memory Capacity

6 DIMM slots Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz

#### Memory Type

2933/2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

### DIMM Sizes

LRDIMM: 32GB, 64GB, 128GB RDIMM: 8GB, 16GB, 32GB, 64GB

#### **Memory Voltage**

1.2V

Error Detection

## Corrects single-bit errors

On-Board Devices

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

ASPEED AST2500

#### Graphics

1 ASPEED AST2500 BMC port(s)

## Network Controllers

Dual LAN with 10GBase-T with Intel® X550

## Input / Output

**SATA** 6 SATA3 (6Gbps) port(s)

#### LAN

2 RJ45 10GBase-T ports

## USB

3 USB 3 port(s) (1 Type A; 2 via header) 4 USB 2.0 port(s) (2 rear; 2 via header)

## 2 USB 3.0 port(s) (2 rear)

Video Output

#### 1 VGA port(s) Serial Port

1 COM Port(s) (1 header)

## DOM

2 SATA <u>DOM</u> (Disk on Module) power connector support TPM 1 TPM Header X11SPG-TF | Motherboards | Products | Supermicro

## **Expansion Slots**

PCIe 1 PCIe 3.0 x16 Center Right Hand Slot, 1 PCIe 3.0 x16 Left Riser Slot, 1 PCIe 3.0 x16 Right Riser Slot M.2 M.2 Interface: PCIe 3.0 x4

Form Factor: 2280

# Key: M-Key System BIOS

**BIOS Type** 

## AMI UEFI

BIOS Features ACPI 6.0

RTC (Real Time Clock) Wakeup SMBIOS 3.0 or later

## Management

## Software

SuperDoctor<sup>®</sup> 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, Intel<sup>®</sup> Node Manager, IPMI2.0, Watchdog

#### **Power Configurations**

Power-on mode for AC power recovery, ACPI Power Management

## PC Health Monitoring

#### Voltage

VBAT, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, 8 -fan status

**LED** UID/Remote UID

Suspend static indicator LED CPU / System Overheat LED

#### Temperature

CPU thermal trip support

# PECI

FAN 8x 4-pin fan headers (up to 8 fans) System level control

PWM fan speed control

Fan speed control

Overheat LED indication

## **Other Features**

WOL, UID, RoHS, M.2 NGFF connector, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, ACPI power management

## Operating Environment Operating Temperature Range 0°C - 50°C (32°F - 122°F) Non-Operating Temperature Range -40°C - 70°C (-40°F - 158°F) Operating Relative Humidity Range 8% - 90% (non-condensing)

**Non Operating Relative Humidity Range** 5% - 95% (non-condensing)

# **Parts List**

## Standard Parts (Bulk Package)

 I/O Cables

 Part Number
 CBL-0044L • CStore

 Qty
 2

 Description
 57.5 cm SATA FLAT S-S PBF

## Standard Parts (Retail Package)

## I/O Cables

Optional Parts				
Description	Motherboard Quick Reference Guide			
Qty	1			
<b>QRG</b> Part Number	MNL-1965-QRG			
Description	57.5 cm SATA FLAT S-S PBF			
Qty	6			
Part Number	CBL-0044L • <i>C</i> Store			

Part Number	AOM-TPM-9671H	AOM-TPM-9670H	AOM-TPM-9671V	AOM-TPM-9670V
Qty				
Description	Infineon 9670 controller	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor	Infineon 9670 controller	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor