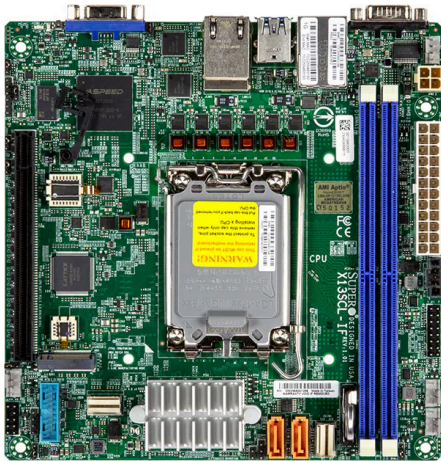# X13SCL-IF

Key Features

Intel® Xeon® 6300-series/E-2400 Series Processor, Pentium®* Processor, Single Socket LGA-1700 (Socket V0) supported, CPU TDP supports Up to 95W TDP

Intel® C262 controller for 6 SATA3 (6 Gbps) ports ; RAID 0,1,5,10

Up to 64GB ECC Unbuffered DIMM, DDR5-4800MHz, in 2 DIMM slots

1 PCIe 5.0 x16

2 SlimSAS (2 PCIe 4.0x4 or 1 PCIe 4.0x4 & 4 SATA)

Dual LAN with Intel® i210 Gigabit Ethernet Controller

M.2 Interface: 1 PCIe 4.0 x4

M.2 Form Factor: 2280

M.2 Key: M-Key

4 USB 3.2 Gen1 ports (2 rear + 2 via header)

2 USB 2.0 ports (2 rear)

Optimized Servers

SYS-521R-T (/de/products/system/up_workstation/compact%20mini-tower/sys-521r-t)

Specifications

Product SKUs
MBD-X13SCL-IF

Physical Stats
Form Factor
Mini-ITX
Dimension
6.7" x 6.7" (17.02cm x 17.02cm)

Processor
CPU
Intel® Xeon ® 6300-series/ E-2400/Pentium®* Processor
Single Socket V0 (LGA-1700) supported,
CPU TDP supports Up to 95W TDP
*Pentium® G7400 and G7400T
BIOS 2.0 or above is required to support
Intel® Xeon® 6300-series processor
Core
Up to 8 cores

System Memory
Memory Capacity
2 DIMM slots
Up to 64GB Unbuffered ECC UDIMM,
DDR5-4800MT/s
Memory Type
4800/4400/4000 MT/s Up to 64GB of
memory with speeds of up to 4800MT/s
(1DPC)
DIMM Sizes
8GB, 16GB, 32GB
Memory Voltage
1.1V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC
memory)

On-Board Devices
Chipset
Intel® C262
SATA
Intel® C262 controller for 6 SATA3 (6 Gbps)
ports; RAID 0,1,5,10
IPMI
ASPEED AST2600 BMC
Graphics
1 Aspeed AST2600 BMC port(s)
Network Controllers
Dual LAN with 1GbE with Intel® I210

Input / Output
SATA
2 SATA3 (6Gbps) port(s)
4 SATA3 (6Gbps) port(s) via Slimline SAS x4
connector
LAN
1 RJ45 Dedicated IPMI LAN port
USB
2 USB 2.0 port(s) (2 rear)
4 USB 3.2 Gen1 port(s) (2 via header; 2
rear)
Video Output
1 VGA D-Sub Connector port(s)
Serial Port
1 COM Port(s) (1 rear)
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 5.0 x16,
1 PCIe 4.0 x4 SlimSAS, 2 PCIe 4.0x4 or 1
PCIe 4.0x4 & 4 SATA
M.2
M.2 Interface: 1 PCIe 4.0 x4
Form Factor: 2280
Key: M-Key

System BIOS
BIOS Type
AMI 32MB AMI UEFI
BIOS Features
ACPI 6.4
SMBIOS 3.5
UEFI 2.8
Plug and Play (PnP)
PCI FW 3.3

Management
Software
SuperCloud Composer®
(/en/solutions/management-
software/supercloud-composer),
Supermicro Server Manager (SSM)
(/en/solutions/management-
software/supermicro-server-
manager), Supermicro Power
Manager (SPM)
(/en/solutions/management-
software/supermicro-power-
manager), Supermicro Update
Manager (SUM)
(/en/solutions/management-
software/supermicro-update-
manager), Supermicro
SuperDoctor® 5 (SD5)
(/en/solutions/management-
software/superdoctor), Super
Diagnostics Offline (SDO)
(/en/solutions/management-
software/super-diagnostics-
offline), Supermicro Thin-Agent
Service (TAS)
(/en/solutions/management-
software/thin-agent-service),
SuperServer Automation Assistant
(SAA) New!
(/en/solutions/management-
software/superserver-
automation-assistant), Plug-ins
for 3rd Party Software
(/en/solutions/management-
software/plugins), IPMI Utilities
(/en/solutions/management-
software/ipmi-utilities)
Power Configurations
ACPI Power Management, Power-on
mode control for AC power loss recovery,
Power button override mechanism,
Wake-On-LAN

PC Health Monitoring
Voltage
VBAT, System level control, Supports
system management utility, Monitors
CPU voltages, Chipset Voltage, Chassis
intrusion header, 4 -fan status, +5V
standby, +5V, +3.3V, +12V, Memory
Voltages, +3.3V standby
LED
UID/Remote UID
CPU / System Overheat LED
Temperature
Monitoring for CPU and chassis
environment
CPU thermal trip support
PECI
FAN
4x 4-pin fan headers (up to 4 fans)
Fan speed control
4 fans with tachometer monitoring
Overheat LED indication
Other Features
WOL, UID, M.2 NGFF connector, Control of
power-on for recovery from AC power
loss, Chassis intrusion header, ACPI
power management

Operating Environment
Operating Temperature Range
-5°C - 55°C (23°F - 131°F)
**Non-Operating Temperature
Range**
-30°C - 60°C (-22°F - 140°F)
**Operating Relative Humidity
Range**
8% - 80% (non-condensing)
**Non Operating Relative
Humidity Range**
8% - 90% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Shield

Part Number	MCP-260-00042-0N • eStore (https://store.supermicro.com/mcp-260-00042-0n.html)
Qty	1
Description	STD I/O Shield with EMI Gasket

SATA Cables

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Standard Parts (Retail Package)

I/O Shield

Part Number	MCP-260-00042-0N • eStore (https://store.supermicro.com/mcp-260-00042-0n.html)
Qty	1
Description	STD I/O Shield with EMI Gasket

QRG

Part Number	MNL-2557-QRG
Qty	1
Description	Motherboard Quick Reference Guide

SATA cable

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Optional Parts

Active Heatsink

Part Number	SNK-P0092AP4	SNK-P0086AP4 • eStore (https://store.supermicro.com/4u-active-cpu-cooler-x13-snk-p0086ap4.html)
Qty	1	1
Description	Active CPU Heatsink for 2U chassis	Active CPU Heatsink for 4U chassis

Passive heatsink

Part Number	SNK-P0086P • eStore (https://store.supermicro.com/1u-passive-cpu-cooler-snk-p0086p.html)
Qty	1
Description	Passive CPU Heatsink for 1U chassis

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor

x4 SlimSAS to U.2 Cable

Part Number	CBL-SAST-1240A-85
Qty	1
Description	SlimSAS x4 to U.2 Cable

Certain products may not be available in your region

Global SKU (/de/products/SMC_global_skus)