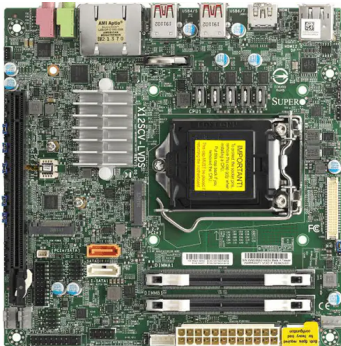


# X12SCV-LVDS



**Embedded  
3 Independent Displays**  
Intel® W480E support Xeon W-1200/i9/i7/i5/i3

## Key Features

- 11th/10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 Processor, Intel® Xeon® W-1200 Processors
- Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 65W TDP
- Single LAN with Intel® PHY I219LM LAN controller
- Single LAN with Intel® Ethernet Controller I210-AT
- Intel® W480E
- Up to 64GB DDR4 ECC/non-ECC SO-DIMM, DDR4-2933MHz, in 2 DIMM slots
- 1 PCIe 3.0 x16 slots (16/NA or 8/8)
- 1 M.2 M-Key PCIe 3.0 x4, 2242/2280
- 1 M.2 E-Key CNVi/PCIe 3.0 x1/USB, 2230
- Intel® W480E controller for 2 SATA3 (6 Gbps) ports; RAID 0,1
- 2 HDMI ports, 1 DP (DisplayPort) port, 1 LVDS port,
- 3 Independent Displays thru HDMI 2.0a/HDMI1.4/DP/LVDS

## Optimized Servers

[SYS-E300-12C \(/de/products/system/mini-itx/sys-e300-12c.cfm\)](https://www.intel.com/de/products/system/mini-itx/sys-e300-12c.cfm)

## Specifications

<b>Product SKUs</b> MBD-X12SCV-LVDS
<b>Physical Stats</b> <b>Form Factor</b> Mini-ITX
<b>Dimension</b> 6.7" x 6.7" (17.02cm x 17.02cm)
<b>Processor</b> <b>CPU</b> Intel® Xeon® W-1200 Processors, 11th/10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 65W TDP
<b>Core</b> Up to 10 cores
<b>Note</b> ** Motherboard supports this maximum TDP. Please verify your system can thermally support. *** The X12SCV-LVDS does not support the Intel 10th/11th generation processor 2M cache SKUs. These processors will not boot with the latest BIOS version.
<b>System Memory</b> <b>Memory Capacity</b> 2 DIMM slots Up to 64GB ECC/non-ECC SODIMM, DDR4-2933MHz
<b>Memory Type</b> 2933/2666/2400/2133 MT/s ECC/non-ECC DDR4 SODIMM
<b>DIMM Sizes</b> 4GB, 8GB, 16GB, 32GB
<b>Memory Voltage</b> 1.2V
<b>Error Detection</b> Corrects single-bit errors Detects double-bit errors (using ECC memory)
<b>On-Board Devices</b> <b>Chipset</b> Intel® W480E
<b>SATA</b> Intel® W480E controller for 2 SATA3 (6 Gbps) ports; RAID 0,1
<b>Audio</b> ALC 8885 HD Audio
<b>Graphics</b> 1 Intel® HD Graphics port(s) 3 Independent Displays thru HDMI 2.0a/HDMI1.4/DP/LVDS
<b>Network Controllers</b> Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT
<b>Input / Output</b> <b>SATA</b> 2 SATA3 (6Gbps) port(s)
<b>LAN</b> 2 RJ45 Gigabit Ethernet LAN ports
<b>USB</b> 4 USB 2.0 port(s) (4 via header) 4 USB 3.2 Gen2 port(s) (4 rear type A)
<b>Video Output</b> 1 DP (DisplayPort) port(s), 2 HDMI port(s), 1 LVDS port(s)
<b>Serial Port</b> 2 COM ports via 1 header
<b>DOM</b> 1 SuperDOM ( /SATADOM ), (Disk on Module) ports
<b>TPM</b> 1 TPM Header & Chip both

<b>Expansion Slots</b> <b>PCIe</b> 1 PCIe 3.0 x16 slots (16/NA or 8/8)
<b>M.2</b> M.2 Interface: 1 CNVi/PCIe 3.0 x1; 1 SATA/PCIe 3.0 x4 Form Factor: 2230, 2242/2280 Key: E-Key, M-Key
<b>System BIOS</b> <b>BIOS Type</b> AMI UEFI
<b>BIOS Features</b> ACPI 6.1 SMBIOS 3.1 PCI FW 3.0 UEFI 2.7 RTC (Real Time Clock) Wakeup
<b>Management</b> <b>System Management Software</b> SuperDoctor 5
<b>Power Configurations</b> ATX Power connector, ACPI / ACPM Power Management, +12V DC Power Input
<b>Security</b> <b>Hardware</b> Trusted Platform Module (TPM) 2.0
<b>PC Health Monitoring</b> <b>Voltage</b> VBAT, System temperature, System level control, PCH temperature, Monitors CPU voltages, HT, CPU temperature, Chipset Voltage, 3-fan status, +3.3V, +1.8V
<b>LED</b> Power LED
<b>Temperature</b> Thermal Control for 3 Fan Connectors
<b>FAN</b> 3x 4-pin fan headers (up to 3 fans) System level control PWM fan speed control Fan speed control 3 fans with tachometer monitoring
<b>Other Features</b> WOL, System level control, RoHS, M.2 NGFF connector, Chassis intrusion header, ATX Power connector, ACPI power management, 8-pin 12V DC power connector, 12V DC or ATX Power Source
<b>Operating Environment</b> <b>Operating Temperature Range</b> 0°C - 60°C (32°F - 140°F) <b>Non-Operating Temperature Range</b> -40°C - 85°C (-40°F - 185°F) <b>Operating Relative Humidity Range</b> 10% - 85% (non-condensing) <b>Non Operating Relative Humidity Range</b> 10% - 95% (non-condensing)

**Parts List**

**Standard Parts (Bulk Package)**

I/O Cables

Part Number	CBL-0044L • <a href="#">eStore</a> <a href="https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html">/https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html</a>
Qty	2
Description	57.5CM SATA FLATS-SPBF

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I/O Shield

Part Number	MCP-260-00158-0N
Qty	1
Description	X12SCV Standard I/O shield

**Standard Parts (Retail Package)**

I/O Cables

Part Number	CBL-0044L • <a href="#">eStore</a> <a href="https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html">/https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html</a>
Qty	2
Description	57.5CM SATA FLATS-SPBF

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I/O Shield

Part Number	MCP-260-00158-0N
Qty	1
Description	X12SCV Standard I/O shield

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QRG

Part Number	MNL-2319-QRG
Qty	1
Description	Motherboard Quick Reference Guide

**Optional Parts**

Active heatsink

Part Number	SNK-P0073A4
Qty	-
Description	2U Active CPU Heatsink

I/O Shield

Part Number	MCP-260-00160-0B	MCP-260-00158-0N
Qty	-	--
Description	1U E300, 101F I/O Shield for X12SCV-LVDS with EMI Gasket	X12SCV Standard I/O shield

Serial Port Cable for COM1 and COM2

Part Number	CBL-CUSB-0984 • <a href="#">eStore</a> <a href="https://store.supermicro.com/2-9-pin-to-20pin-20cm-cable-cbl-cusb-0984.html">/https://store.supermicro.com/2-9-pin-to-20pin-20cm-cable-cbl-cusb-0984.html</a>	CBL-CDAT-0604 • <a href="#">eStore</a> <a href="https://store.supermicro.com/2-9-pin-to-20pin-cable-cbl-cdat-0604.html">/https://store.supermicro.com/2-9-pin-to-20pin-cable-cbl-cdat-0604.html</a>
Qty	--	--
Description	Dual Serial Port Breakout Cable 20cm	Dual Serial Port Breakout Cable with Bracket 40cm

USB Cable

Part Number	CBL-CUSB-0983
Qty	--
Description	USB2.0 cable 20cm



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Global SKU [/de/products/SMC\\_global\\_skus](/de/products/SMC_global_skus)