

## VROC support Key Features

1. Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors., Single Socket LGA-2066 (Socket R4) supported, CPU TDP support Up to 165W TDP
2. Intel® C422
3. Up to 256GB ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots
4. 1 PCI-E 3.0 x16,  
2 PCI-E 3.0 x8  
**M.2 Interface:** 1 PCI-E 3.0 x4  
**M.2 Form Factor:** 2280  
**M.2 Key:** M-Key  
Double Height Connector,  
4 PCI-E 3.0 NVMe x4 Internal Port(s)
5. Dual LAN with Intel® i210 Gigabit Ethernet Controller
6. Intel® VROC

## Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

[Download Driver CD](#)

[OS Compatibility](#)

[Optimization](#)

# Specifications

## Product SKUs

- MBD-X11SRM-VF
- X11SRM-VF

## Physical Stats

- **Form Factor** microATX
- **Dimensions** 9.6" x 9.6" (24.38cm x 24.38cm)

## Processor/Cache

- **CPU** Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors.
  - Single Socket LGA-2066 (Socket R4) supported, CPU TDP support Up to 165W TDP
- **Cores / Cache** 18 cores, 36 threads
- **Note** W-2200 CPU is supported on the motherboards with BIOS 2.0 or newer upon receiving from Supermicro
- **Note** To support 165W W-2200 CPUs, BIOS 2.0 & VRM update by Supermicro are required

## System Memory

- **Memory Capacity** Up to 256GB ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots
- **Memory Type** 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
- **DIMM Sizes** 4GB, 8GB, 16GB, 32GB, 64GB, 128GB
- **Memory Voltage** 1.2V
- **Error Detection** Corrects single-bit errors

## On-Board Devices

- **Chipset** Intel® C422
- **SATA** Intel® C422 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- **IPMI** ASPEED AST2500
- **Network Controllers** Dual LAN with Intel® i210 Gigabit Ethernet Controller
- **Graphics** Aspeed AST2500 BMC

## Input / Output

- **SATA** 8 SATA3 (6Gbps) ports
- **LAN** 2 RJ45 Gigabit Ethernet LAN ports
- **USB** 6 USB 2.0 ports (2 rear + 4 via headers)
  - 5 USB 3.0 ports (2 rear + 2 via headers + 1 Type A)
- **Video Output** 1 VGA port
- **Serial Port / Header** 2 COM Ports (1 rear, 1 header)
- **TPM** TPM Header

## Expansion Slots

- **PCI-E** 1 PCI-E 3.0 x16,
  - 2 PCI-E 3.0 x8
- **M.2** M.2 Interface: 1 PCI-E 3.0 x4
  - Form Factor: 2280
  - Key: M-Key
  - Double Height Connector

## System BIOS

- **BIOS Type** AMI UEFI
- **BIOS Features** ACPI 6.0
  - SMBIOS 3.0 or later
  - Plug and Play (PnP)

## Management

- **Software** IPMI2.0, KVM with dedicated LAN, SUM, SuperDoctor® 5, Watchdog
- **Power Configurations** ACPI Power Management
  - CPU thermal trip support for processor protection
  - Power-on mode for AC power recovery

## PC Health Monitoring

- **Voltage** +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 -fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT
- **FAN** 6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control
- **Temperature** PECI, CPU thermal trip support, Thermal Control for 6 Fan Connectors
- **LED** CPU / System Overheat LED, UID/Remote UID, Suspend static indicator LED
- **Other Features** ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, UID

## Operating Environment

- **Operating Temperature Range** 0°C ~ 50°C (32°F ~ 122°F)
- **Non-Operating Temperature Range** -20°C ~ 60°C (-4°F ~ 140°F)
- **Operating Relative Humidity Range** 10% ~ 85% (non-condensing)
- **Non-Operating Relative Humidity Range** 10% ~ 95% (non-condensing)


# Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SRM-VF	1	X11SRM-VF Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SRM-VF with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SRM-VF	1	X11SRM-VF Motherboard
QRG	MNL-1967-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SRM-VF with EMI Gasket

## Chassis (Optimized for X11SRM-VF)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<a href="#"><u>SC515-R40Z</u></a> <a href="#"><u>SC514-R40ZC</u></a> <a href="#"><u>SC813MFTQC-R40ZCB</u></a> 1U Heatsink:SNK-P0047PS				

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