X9DRW-iF

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Intel® C602 chipset; QPI up to 8.0GT/s
3. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
4. Riser card support: Left side - 1 (x32) PCI-E 3.0
5. Intel® i350 Dual port GbE LAN
6. 8x SATA2 and 2x SATA3 ports
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 6x USB 2.0 ports (4 rear + 2 via header)

Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Motherboard Manual
- Update Your BIOS
- IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD
- Heat Sink Compatibility
- OS Compatibility

GLOBAL SKU

Specifications

Product SKUs	
MBD-X9DRW-iF - O	▪ X9DRW-iF (Standard Retail Pack)
MBD-X9DRW-iF - B	▪ X9DRW-iF (Bulk Pack)

Physical Stats	
Form Factor	▪ Proprietary WIO
Dimensions	▪ 12" x 13" (30.5cm x 33.0cm)

Processor/Cache	
CPU	▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and **E5-2600 v2** family† (up to 135W TDP **)
Note	† BIOS version 3.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support.
Cache	▪ Up to 30MB
System Bus	▪ QPI up to 8 GT/s

System Memory	
Memory Capacity	▪ 16x 240-pin DDR3 DIMM slots ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC RDIMM ▪ Up to 128GB DDR3 ECC/non-ECC UDIMM
Memory Type	▪ 1866/1600/1333/1066/800MHz* ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs ▪ Support ECC and non-ECC UDIMMs * Maximum memory speed may be capped by CPU. Please verify that the chosen CPU can support desired memory speed.
DIMM Sizes	▪ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB, 64GB LRDIMM
Memory Voltage	▪ 1.5 V, 1.35 V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

On-Board Devices	
Chipset	▪ Intel® C602 chipset
AHCI SATA	▪ SATA 2.0 3Gbps with RAID 0, 1, 5, 10 ▪ SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SCU SATA	▪ SATA 2.0 3Gbps with RAID 0, 1, 5, 10
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Renesas SH7757 BMC
Network Controllers	▪ Intel® i350 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	▪ G200 (Renesas SH7757 BMC)

Input / Output	
AHCI SATA	▪ 2x SATA 3.0 ports (6Gbps) ▪ 4x SATA 2.0 ports (3Gbps)
SCU SATA	▪ 4x SATA 2.0 ports (3Gbps)
LAN	▪ 2 RJ45 Gigabit Ethernet LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 6 USB 2.0 ports total (4x rear + 2x via header)
Video	▪ 1 VGA port
Serial Port / Header	▪ 2 Fast UART 16550 ports / 1 rear and 1 header
DOM	▪ 1 DOM (Disk on Module) power connector

Chassis (Optimized for X9DRW-iF)	
1U Chassis	▪ CSE-113TQ-600WB ▪ CSE-113TQ-R700WB ▪ CSE-116TQ-R700WB ▪ CSE-815TQ-600WB ▪ CSE-815TQ-R700WB
2U Chassis	▪ CSE-213A-R740WB ▪ CSE-825TQ-R740WB
Important Chassis Notes	▪ To support the new generation Intel® Xeon® processor-based motherboards, **Revision M** chassis is recommended. Please talk to your sales representative for details.

SuperServer(s) with X9DRW-iF	
Model(s)	▪ SYS-1027R-WRF ▪ SYS-2027R-WRF ▪ SYS-6017R-NTF ▪ SYS-6017R-WRF ▪ SYS-6027R-WRF

Expansion Slots	
PCI-Express	▪ 1 PCI-E 3.0 (x32) left hand side riser card support (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)

System BIOS	
BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ APM 1.2 ▪ PCI 2.3 ▪ ACPI 1.0 / 2.0 / 3.0 / 4.0 ▪ BIOS rescue hot keys ▪ USB Keyboard support ▪ SMBIOS 2.7.1 ▪ UEFI 2.3.1

Management	
Software	▪ SuperDoctor® III ▪ Watch Dog ▪ NMI ▪ IPMI 1.5 / 2.0
Power Configurations	▪ ACPI / APM Power Management ▪ Power-on mode for AC power recovery

PC Health Monitoring	
Voltage	▪ Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, 4 Memory Voltages. ▪ 5+1 Phase-switching voltage regulator
FAN	▪ 6x 4-pin fan headers ▪ 6x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 6x Fan Connectors ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED indicator ▪ Suspend static indicator LED ▪ UID/Remote UID
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ SDDC Support ▪ RoHS ▪ Dual cooling zones

Operating Environment	
Operating Temperature Range	▪ 10°C - 35°C (50°F - 95°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)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (retail)

	Part Number	Qty	Description
X9DRW-iF	MBD-X9DRW-iF	1	X9DRW-iF Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cables	CBL-0097L-03	1	30AWG 50CM Ipass to 4 SATA, W/50cm SB, S

Optional Parts List

	Part Number	Qty	Description

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	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference

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