

X9DRW-iF

Products ▶ Motherboards ▶ Xeon® Boards ▶ [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](#)



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 w/ RAID 0, 1, 5, 10 - SATA 3.0 6Gbps w/ RAID 0, 1, 5, 10
SCU SATA	SATA 2.0 3Gbps w/ RAID 0, 1, 5, 10
IPMI	- Support for Intelligent Platform Management Interface v.2.0 - IPMI 2.0 w/ 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 PCIe 3.0 (x32) left hand side riser card support (Both CPUs need to be installed for full access to PCIe slots and onboard controllers. See manual block diagram for details.)
System BIOS	
BIOS Type	▪ 128Mb SPI Flash EEPROM w 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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Heat Sink (optional, not included)	-	-	CPU Heat Sink reference