X9DRW-3LN4F+

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Intel® C606 chipset; QPI up to 8.0GT/s
3. Up to 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM slots
   * Depends on memory configuration
4. Riser card support: Left side - 1 (x48) PCI-E 3.0
5. 4x Gigabit Ethernet LAN ports; Intel® i350 GbE controller
6. 4x SATA2 and 2x SATA3 ports
7. 8x SAS ports from C606
8. Integrated IPMI 2.0 and KVM with Dedicated LAN
9. 7x USB 2.0 ports (2 rear, 4 via header + 1 Type A)

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-3LN4F+-B	▪ X9DRW-3LN4F+ (Bulk Pack)

Physical Stats	
Form Factor	▪ Proprietary WIO
Dimensions	▪ 12.8" x 16.5" (32.5cm x 41.9cm)

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	▪ 24x 240-pin DDR3 DIMM slots ▪ Up to 1.5TB DDR3 ECC LRDIMM ▪ Up to 768GB 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® C606 chipset
SATA	▪ SATA 2.0 3Gb/s with RAID 0, 1, 5, 10 ▪ SATA 3.0 6Gb/s with RAID 0, 1, 5, 10
SAS	▪ SAS from C606 ▪ RAID 0, 1, 10 support
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Nuvoton WPCM450 BMC
Network Controllers	▪ Intel® i350 Gigabit Ethernet (x4 ports) ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI) (Both CPUs need to be installed for LAN ports 3 and 4 to be enabled)
Video	▪ Matrox G200eW

Input / Output	
SATA	▪ 2 SATA 3.0 ports (6Gb/s) ▪ 4 SATA 2.0 ports (3Gb/s)
SAS	▪ 8 SAS ports
LAN	▪ 4 RJ45 Gigabit Ethernet LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 7 USB 2.0 ports total (2 rear + 4 via header + 1 Type A)
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
TPM	▪ 1 TPM 1.2 20-pin Header

Chassis (Optimized for X9DRW-3LN4F+)	
1U Chassis	▪ CSE-119TQ-R700WB ▪ CSE-819TQ-R700WB
2U Chassis	▪ CSE-219A-R920WB ▪ CSE-829BTQ-R920WB ▪ CSE-829TQ-R920WB
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-3LN4F+	
Model(s)	▪ SYS-1027R-WRF4+ ▪ SYS-2027R-N3RF4+ ▪ SYS-6017R-N3RF4+ ▪ SYS-6027R-N3RF4+

Expansion Slots	
PCI-Express	▪ 1 PCI-E 3.0 (x48) 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 ▪ 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, Memory Voltages. ▪ 5+1 Phase-switching voltage regulator
FAN	▪ 6x 4-pin fan headers (up to 6 fans) ▪ 6x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 8x Fan Connectors ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ Suspend static indicator LED ▪ UID/Remote UID
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ SDDC Support ▪ RoHS

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 (Bulk)

	Part Number	Qty	Description
X9DRW-3LN4F+	MBD-X9DRW-3LN4F+	1	X9DRW-3LN4F+ Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF

Optional Parts List

	Part Number	Qty	Description
I/O Cables	CBL-0097L-03	2	30AWG 50CM Ipass to 4 SATA, W/50cm SB, S

Optional Parts List

	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V AOM-TPM-9655H	-	TPM module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]

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