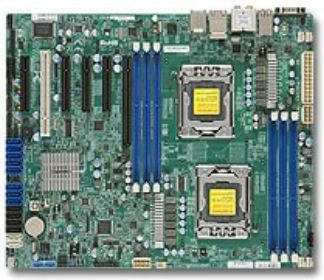
X9DAL-3



Key Features

1. Dual socket B2 (LGA 1356) supports Intel® Xeon® processor E5-2400 v2
2. Intel® C606 chipset
3. Up to 384GB DDR3 1600MHz LRDIMM / 192GB RDIMM; 6x DIMM slots
4. Expansion slots: 1 PCI 32, 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8) 3 PCI-E 3.0 x8 (1 allows a x16 card)
5. Intel® 82574L Dual port GbE LAN
6. 4x SATA2 and 2x SATA3 ports
7. 8x SAS/SATA2 ports from C606
8. 4x USB 3.0 and 10x USB 2.0 ports

Links & Resources

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

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

MBD-X9DAL-3 -O	X9DAL-3 (Standard Retail Pack)
MBD-X9DAL-3 -B	X9DAL-3 (Bulk Pack)

Physical Stats

Dimensions	12" x 10" (30.48cm x 25.4cm)

Processor/Cache

CPU	**Intel® Xeon® processor E5-2400 and E5-2400 v2 (up to 95W TDP **)** Dual Socket B2 (LGA 1356)
Cache	Up to 25MB
System Bus	QPI up to 8 GT/s
	** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity	6x 240-pin DDR3 DIMM slots Up to 384GB DDR3 ECC LRDIMM Up to 192GB DDR3 ECC Registered memory (RDIMM) Up to 48GB DDR3 ECC/non-ECC Un-Buffered memory (UDIMM)
Memory Type	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
Network Controllers	Intel® 82574L Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	RealTek ALC889 7.1 High Definition Audio with S/PDIF header

Chassis (Optimized for X9DAL-3)

2U Chassis	CSE-213LT-600LPB CSE-825TQ-600LPB
Mid-Tower	CSE-732D4-500B
Tower / 4U Rackmount	CSE-743T-665B CSE-743TQ-865B-SQ
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.

Expansion Slots

PCI-Express	1x PCI-E 3.0 x16 3x PCI-E 3.0 x8 (1 allows a x16 card) 1x PCI-E 3.0 x4 (in x8) 1x PCI-32 (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 DMI 2.3 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
Power Configurations	ACPI / APM Power Management Main Switch Override Mechanism CPU Fan auto-off in sleep mode Power-on mode for AC power recovery Suspend to RAM (STR)

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 Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors

Input / Output	
SATA	▪ 2 SATA 3.0 ports (6Gb/s) ▪ 4 SATA 2.0 ports (3Gb/s)
SAS	▪ 8 SAS/SATA2 ports
LAN	▪ 2 RJ45 Gigabit Ethernet LAN ports
USB	▪ 4 USB 3.0 ports (Renesas uPD720200A; 2 rear + 2 via header) ▪ 10 USB 2.0 ports (4 rear + 6 via header)
Audio	▪ 7.1 HD Audio with optical S/PDIF
Keyboard/Mouse	▪ PS/2 Keyboard Combo 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 Header

Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 6x Fan Connectors ▪ I²C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED
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 (retail)

	Part Number	Qty	Description
X9DAL-3	MBD-X9DAL-3	1	X9DAL-3 Motherboard
I/O Cables	CBL-0044L	8	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00045-0N	1	Standard I/O Shield

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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