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X6DAL-TG

Products ▸ Motherboards ▸ Xeon Boards ▸ [X6DAL-TG]

Key Features

1. Dual Intel® 64-bit Xeon® Support, Up to 3.8 GHz, 800 MHz FSB
2. Intel® E7525 (Tumwater) Chipset
3. Up to 12GB DDR 333 SDRAM Up to 24GB DDR 266 SDRAM
4. Intel® 82541GI Gigabit Ethernet Controller
5. 4x SATA Ports via Adaptec Controller, 2x SATA Ports via 6300ESB On-chip SATA Controller
6. 1 (x16) & 1 (x8) PCI-Express, 2x 64-bit 66MHz PCI-X, 2x 32-bit 33MHz PCI
7. AC'97 Audio, 6-Channel Sound
8. Fan Speed Low Noise Control

Links & Resources

▸ Recommended Chassis

▸ Tested Memory List

▸ Motherboard Manual

▸ Update Your BIOS

▸ Download the Latest Drivers and Utilities

Specifications

Product SKUs

MBD-X6DAL-TG-O	X6DAL-TG (Standard Retail Pack)
MBD-X6DAL-TG-B	X6DAL-TG (Bulk Pack)

Physical Stats

Form Factor	ATX
Dimensions	12" x 10" (30.5cm x 25.4cm)

Processor/Cache

CPU	• Dual 604-pin FC-mPGA4 Sockets
	• Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:
	  • Xeon (Nocona) CPU with 1MB L2 Integrated Advanced Transfer Cache, up to 3.60 GHz
	  • Xeon (Irwindale) CPU with 2MB L2 Integrated Advanced Transfer Cache, up to 3.80 GHz
	  • Xeon LV (Low Voltage) CPU, up to 2.8 GHz

System Bus	• 800MHz system bus
Operating System Software	• Supports 64-bit Operating Systems • Supports 32-bit Operating Systems • OS Compatibility Chart

System Memory

Memory Capacity	• Six 184-pin DIMM sockets • Supports up to 12 GB DDR 333 MHz or • Supports up to 24 GB DDR 266 MHz • Dual channel memory bus • Memory must be populated in pairs • Memory Sparing
Memory Type	• DDR333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
DIMM Sizes	• 256 MB, 512 MB, 1GB, 2GB, 4GB**
Memory Voltage	• 2.5 V only
Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory)

Chassis (Optimized for X6DAL-TG)

Tower / 4U Rackmount	• SC743T-650 • SC743T-645 - Low Noise • SC742T-550 • Note: Extension cable (CBL-0062) is required for SC743 Chassis.
Mid-Tower	• SC733T-645 - Low Noise
Important Chassis Notes	• To ensure system stability, a 420W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required] • Chassis must have CPU mounting holes required for 800MHz FSB CPUs with this serverboard.

Expansion Slots

PCI-Express	• 1 (x16) PCI-e slot • 1 (x8) PCI-e slot
PCI-X	• 2x 64-bit 66MHz PCI-X (3.3V) slots
PCI	• 2x 32-bit 33MHz PCI (5V) slots

System BIOS

BIOS Type	• 8Mb Flash EEPROM with AMI® BIOS
BIOS Features	• Plug and Play (PnP) • SMBIOS 2.3 • APM 1.2 • DMI 2.1 • ACPI 2.0

Management

Software	• SuperDoctor® III • Watch Dog
Power Configurations	• ACPI/APM Power Management • Main Switch Override Mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Suspend to RAM (STR) • CPU Fan auto-off in sleep mode • Power-on mode control for AC power loss recovery • Internal/External modem remote ring-on

PC Health Monitoring

Voltage	

- Supports Intel® x4 Single Device Data Correction (SDDC)
- Memory Sparing / Mirroring

On-Board Devices

Chipset	- Intel® E7525 chipset - MCH + 6300ESB + 82541GI + Marvell 88SX6041
SATA	- Adaptec AIC-8130: Marvell 88SX6041 4-port Hercules-2, rev C0, SATA Controller with support for 4x SATA ports - RAID 0, 1 and JBOD support
SATA	- Intel 6300ESB (Hance Rapids) SATA Controller with support for 2x SATA ports - RAID 0, 1 and JBOD support
Network Controllers	- 1x Intel® 82541GI Gigabit Ethernet - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	- AC'97 audio CODEC with high quality 6-channel sound

Input / Output

Serial ATA	- Four SATA ports (via Marvell 88SX6041) - Two SATA ports (via Intel 6300ESB) - Up to six SATA hard drives supported
IDE	- Dual EIDE channels support up to four UDMA IDE devices - Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	- 1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support
LAN	- 1x RJ45 LAN port
USB	- Up to 4 USB 2.0: 2 ports, 2 headers
Audio	- 1x Line In / Line Out / Microphone ports
Keyboard / Mouse	- PS/2 keyboard and mouse ports
Serial Ports	- 2 Fast UART 16550 serial ports
Parallel Header	- 1 ECP / EEP parallel header (CBL-081 required)

- Monitors for CPU Cores, +3.3V, +5V, ±12V & +5V Standby
- CPU Core 4-Phase-switching voltage regulator with auto-sense from 1.3V-1.5V
- Adjustable CPU clock frequency ratio settings (via BIOS)

FAN	- Total of six 4-pin fan headers - 6x fans with status monitoring - Status monitor with firmware/software on/off control - Low noise fan speed control - Pulse Width Modulated (PWM) fan connector
Temperature	- Monitoring for CPU and chassis environment - CPU thermal trip support - Thermal Monitor 2 support
LED	- CPU Overheat LED - System Overheat LED - Suspend-state indicator LED - Power Fail LED - Power LED - HDD LED - NIC LED - Fan Fail LED
Other Features	- Chassis intrusion detection - Chassis intrusion header - SDDC - Memory Sparing

OS Compatibility

- Please see our **OS Compatibility Chart**

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

Parts List

Parts List

	Part Number	Qty	Description
X6DAL-TG	MBD-X6DAL-TG-O	1	X6DAL-TG Motherboard
Manual(s)	MNL-0725	1	Motherboard Manual for X6DAL-TG
I/O Cables	CBL-022	1	ATX Floppy Cable
	CBL-036L-02	1	ATA 66/100 IDE LP Cable
	CBL-044L	4	2ft. Amphenol, SATA Cable
Driver Disk	CDR-INTC 1.20	1	Version 1.20 CD or later
I/O Shield	CSE-PT2	1	Motherboard I/O Shield
Accessories	SKT-0159	1	CPU Mounting Plate

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.
** 4GB Memory has not been verified due to temporary module unavailability.