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Find the *Supermicro X8DTN+-F* at our website: *Click HERE*

X8DTN+-F



18 DIMM, Xeon 5520 (Tylersburg) ServerBoard - 288GB

Key Features

1. Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
2. Intel® 5520 (Tylersburg) Chipset
3. Up to 288GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 48GB Unbuffered DIMM
4. Intel® 82576 Dual-port Gigabit Ethernet Controller
5. 6x SATA2 (3 Gbps) Ports via ICH10R Controller
6. 2 (x8) PCI-E 2.0 (in x16 slots), 2 (x4) PCI-E 2.0 (in x 8 slots), 1 (x4) PCI-E (in x 8 slot) & 1 UIO (PCI-E 2.0 x8 slot)
7. Integrated Matrox G200eW Graphics
8. Integrated IPMI 2.0 with KVM and Dedicated LAN

Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Motherboard Manual
- Quick Reference Guide
- Update Your BIOS
- IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD

Specifications

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

MBD-X8DTN+-F-O	▪ X8DTN+-F (Standard Retail Pack)
MBD-X8DTN+-F-B	▪ X8DTN+-F (Bulk Pack)

Physical Stats

Form Factor	▪ Enhanced Extended ATX
Dimensions	▪ 13.68" x 13" (34.7cm x 33cm)

Processor/Cache

CPU	▪ Dual 1366-pin LGA Sockets ▪ Supports up to two **Intel® 64-bit Xeon®** processor(s) of the same type below: ▪ **Intel® Xeon®Processor 5600 Series (Westmere)** ▪ **Intel® Xeon®Processor 5500 Series (Nehalem-EP)**
QPI	▪ up to 6.4 GT/s

System Memory

Memory Capacity	▪ 18x 240-pin DIMM slots ▪ Supports up to 288GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory ▪ Supports up to 48GB 1333 / 1066 / 800MHz DDR3 ECC / Non ECC Unbuffered memory ▪ Memory Mirroring supported

Chassis (Optimized for X8DTN+-F)

2U Chassis	▪ CSE-213A-R900LPB ▪ CSE-216A-R900LPB ▪ CSE-216E1-R900LPB ▪ CSE-216E2-R900LPB ▪ CSE-823MTQ-R700LPB ▪ CSE-825MTQ-R700LPB ▪ CSE-825TQ-563LPB ▪ CSE-826A-R1200LPB ▪ CSE-826E1-R800LPB ▪ CSE-826E2-R800LP ▪ CSE-826TQ-R800LPB
3U Chassis	▪ CSE-836E1-R800B ▪ CSE-836E2-R800B ▪ CSE-836TQ-R800B ▪ CSE-936E1-R900 ▪ CSE-936E16-R1200B ▪ CSE-936E26-R1200B
Tower / 4U Rackmount	▪ CSE-846E1-R900B ▪ CSE-846E16-R1200B ▪ CSE-846E2-R900 ▪ CSE-846E26-R1200B ▪ CSE-846TQ-R900B
Important Chassis Notes	▪ To support the new generation Intel® Xeon® processor-based motherboards, a **Revision K** chassis is recommended for most models. Please talk to your sales representative or follow the link for details.

Expansion Slots

PCI-Express	▪ 2 (x8) PCI-E slots (in x16 slots) ▪ 2 (x4) PCI-E slots (in x8 slots) ▪ 1 (x4) PCI-E slot (in x8 slot)

Memory Type	▪ 1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 1GB, 2GB, 4GB , 8GB , 16GB
Memory Voltage	▪ 1.5 V / 1.35V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory) ▪ Supports Intel® x4 and x8 Single Device Data Correction (SDDC)
Note:	This board does not support LRDIMM memory.

On-Board Devices

Chipset	▪ Intel® 5520 (Tylersburg) chipset ▪ ICH10R + IOH-36D
SATA	▪ Intel ICH10R SATA 3.0Gbps Controller ▪ RAID 0, 1, 5, 10 support (Windows) ▪ RAID 0, 1, 10 support (Linux)
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Winbond® WPCM450 BMC
Network Controllers	▪ Intel® 82576 Dual-Port Gigabit Ethernet Controller ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ **Intel® I/OAT 3** support for fast, scaleable, and reliable networking ▪ **VMDq** support for better performance of virtualization ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	▪ Matrox G200eW
Super I/O	▪ Winbond 83657HG chip

Input / Output

Serial ATA	▪ 6 Serial ATA ports ▪ 6 SATA hard drives supported
LAN	▪ 2 RJ45 LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 4 USB rear ports ▪ 1 TypeA USB connector ▪ 3 USB internal headers(5 ports) ▪ 10 total USB ports, 2.0 Compliant
VGA	▪ 1 VGA Port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Port / Header	▪ 1 Fast UART 16550 serial port ▪ 1 Fast UART 16550 serial header (opt)
UIO	▪ 1 UIO slot (PCI-E 2.0 x8 slot)

System BIOS

BIOS Type	▪ 32Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ PCI 2.2 ▪ ACPI up to 3.0 ▪ USB Keyboard support

Management

Software	▪ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support ▪ SuperDoctor® III
Power Configurations	▪ ACPI / ACPM Power Management

PC Health Monitoring

Voltage	▪ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT Voltages. ▪ 6-Phase-switching voltage regulator
FAN	▪ Total of eight fan headers supporting up to 8 fans ▪ Eight 4-pin fan headers ▪ 8x fans with tachometer status monitoring ▪ Support 3-pin fans (w/o speed control) ▪ Low noise fan speed control (4-pin fan only)
Temperature	▪ Monitoring for CPU and chassis environment ▪ Thermal Control for 8x fan connectors ▪ PECI
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header

Operating Environment

Environmental Spec.	▪ Operating Temperature: 10° to 35° C (50° to 95°F) ▪ Non-operating Temperature: -40° to 70° C (-40° to 158° F) ▪ Operating Relative Humidity: 8% to 90% (non-condensing) ▪ Non-operating Relative Humidity: 5 to 95% (non-condensing)

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
X8DTN+-F	MBD-X8DTN+-F -O	1	X8DTN+-F Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Cable 2	CBL-0083L	1	15.7" USB 2.0 2-PORT W/KEY
I/O Cable 3	CBL-010L	1	9 PIN SERIAL PORT DTK CABLE, LF
I/O Shield	MCP-260-00037-0N	1	STANDARD SIZE I/O SHIELD FOR X8DTN+-F
Manual	MNL-1199-QRG	1	X8DTN+-F(-LR) QUICK REFERENCE GUIDE

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.

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