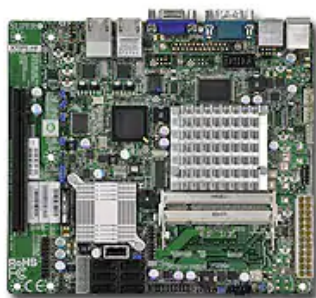




X7SPE-HF-D525

Products ▶ Motherboards ▶ Pineview Boards ▶ [X7SPE-HF-D525]



- CPU Integrated
- Value Server Platform

Key Features

1. Intel® Atom™ D525 (Pineview-D) (DMI)
2. Intel® ICH9R Chipset
3. Up to 4GB single channel unbuffered, non-ECC DDR3 800MHz SO-DIMM
4. 2x Intel 82574L Gigabit LAN
5. 6x SATA (3.0Gbps) Ports RAID 0, 1, 5, 10 (Windows Only)
6. 1 (x4) PCI-E (in x16 slot)
7. 2 rear USB ports + 3 headers (5 ports) + 1 Type A connector
8. Integrated Matrox G200eW Video
9. Integrated IPMI 2.0
10. TPM header ready
11. DOM Power connector

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)

Specifications

Product SKUs

MBD-X7SPE-HF-D525 -O ■ X7SPE-HF-D525 (Standard Retail Pack)

MBD-X7SPE-HF-D525 -B ■ X7SPE-HF-D525 (Bulk Pack)

Physical Stats

Form Factor ■ FlexATX

Dimensions ■ 7.5" x 6.75" (19.05cm x 17.15cm)

Processor/Cache

CPU ■ Intel® Atom™ D525 processor

System Bus ■ DMI

System Memory

- Two 204-pin SO-DIMM slots
- Supports up to 4 GB of unbuffered, non-ECC DDR3 800MHz SO-DIMM (Single Channel)
- Some 1066MHz and 1333MHz memory can be used, but will operate at 800MHz

Memory Capacity

Note: Supports 1-Gb and 2-Gb devices only - Intel D525 Memory Requirements

Memory Type ■ DDR3 800MHz unbuffered, non-ECC SO-DIMM

DIMM Sizes ■ 256 MB, 512 MB, 1 GB, 2GB

Memory Voltage ■ 1.5V only

On-Board Devices

Chipset ■ Intel ICH9R
■ Intel 82574L

SATA ■ Intel ICH9R SATA 3.0Gbps Controller
■ RAID 0, 1, 5, 10 support (Windows Only)

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

Chassis (Optimized for X7SPE-HF-D525)

1U Chassis ■ [CSE-502L-200B](#)

Expansion Slots

PCI-Express ■ 1 (x4) PCI-Express (in x16 slot)

Management

Software ■ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
■ [SuperDoctor® III](#)
■ Watch Dog

Power Configurations ■ ACPI/APM Power Management
■ Main Switch Override Mechanism
■ Suspend to RAM (STR)
■ Power-on mode control for AC power recovery
■ Internal / External modem remote ring-on

PC Health Monitoring

Voltage ■ Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, VBAT, Memory, Chipset
■ CPU Core 1-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6000V

FAN ■ Total of two 4-pin fan headers
■ 2 x fans with tachometer monitoring
■ Status monitor for speed control
■ Status monitor for on / off control
■ Support 3-pin fans (without speed control)
■ Low noise fan speed control
■ Pulse Width Modulated (PWM) fan conn.

Temperature ■ Monitoring for CPU and chassis environment
■ CPU thermal trip support
■ Thermal Control for 2 x Fan Connectors
■ I2C temperature sensing logic
■ Thermal Monitor 2 (TM2) Support

LED ■ CPU / System Overheat LED

Other Features ■ Chassis intrusion Detection
■ Chassis intrusion Header
■ SDDC Support

Operating Environment

Network Controllers	<ul style="list-style-type: none"> 2x Intel 82574L Gigabit Ethernet Supports 10BASE-T, 100/1000BASE-TX, RJ45 output
Graphics	<ul style="list-style-type: none"> Onboard Matrox G200eW video
Super I/O	<ul style="list-style-type: none"> Winbond 83627DHG chip

Input / Output

Serial ATA	<ul style="list-style-type: none"> 6 Serial ATA ports (3Gb/s)
LAN	<ul style="list-style-type: none"> 2x RJ45 LAN port
USB	<ul style="list-style-type: none"> 8x USB 2.0 / 1.1 compatible 2 rear + 3 headers (5 ports) + 1 Type A connector
VGA	<ul style="list-style-type: none"> D-Sub 15
Keyboard / Mouse	<ul style="list-style-type: none"> PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> 1x Fast UART 16550 serial port 1x Serial Header

System BIOS

BIOS Type	<ul style="list-style-type: none"> 8Mb Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) DMI 2.3 PCI 2.2 ACPI 1.0 / 2.0 / 3.0 USB Keyboard support SMBIOS 2.3

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**Standard Retail Package**

	Part Number	Qty	Description
X7SPE-HF-D525	MBD-X7SPE-HF-D525 -O	1	X7SPE-HF-D525 Motherboard
I/O Cable 1	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
Screw Bag	FST-SCRW-0010	1	STAND-OFF, H=3MM, 2PCS/BAG
I/O Shield	MCP-260-00039-0N	1	STANDARD SIZE I/O SHIELD FOR X8SIA
Manual	X7SPE-HF-D525 Manual	1	X7SPA/X7SPE QUICK REFERENCE GUIDE
Quick Reference Guide	MNL-1166-QRG	1	Quick Reference Guide

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

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