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› [TYAN B7126T65V10E4HR Thunder SX TS65-B7126 Storage Server User Manual](#)

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TYAN B7126T65V10E4HR Thunder SX TS65-B7126 Storage Server User Manual

Model: B7126T65V10E4HR Thunder SX TS65-B7126 | Brand: TYAN

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the TYAN B7126T65V10E4HR Thunder SX TS65-B7126 Storage Server. Please read this manual thoroughly before operating the server to ensure proper functionality and to prevent damage.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the equipment:

- Always disconnect power before performing any installation or maintenance.
- Ensure proper grounding to prevent electrical shock.
- Operate the server in a well-ventilated environment to prevent overheating.
- Do not expose the server to moisture or extreme temperatures.
- Only qualified personnel should perform service or repairs.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- TYAN B7126T65V10E4HR Thunder SX TS65-B7126 Storage Server Unit
- Power Cord(s)
- Accessory Kit (screws, cables, etc.)
- Quick Installation Guide (this manual serves as the detailed guide)

4. PRODUCT OVERVIEW

The TYAN Thunder SX TS65-B7126 is a high-performance storage server designed for demanding data center environments. It features extensive storage capabilities and flexible expansion options.



Figure 4.1: Front view of the TYAN B7126T65V10E4HR Thunder SX TS65-B7126 Storage Server, showing drive bays and front panel controls.

Key Features:

- **Memory:** 16 DIMM slots supporting DDR4 3200 memory.
- **Front Storage:** 12 x 3.5" SATA hot-swap, tool-less drive bays, with optional support for 4 NVMe U.2 drives.
- **Rear Storage:** 2 x 2.5" SATA hot-swap, tool-less drive bays.
- **Networking:** PCIe 3.0 x16 OCP v2.0 LAN mezzanine slot (Type 1).
- **Internal Storage:** 1 x NVMe/PCIe 3.0 x2 M.2 2280 slot.

5. SETUP

5.1 Rack Installation

The server is designed for standard 19-inch rack mounting. Secure the server using appropriate rack rails and screws (typically included in the accessory kit) to ensure stability and proper airflow.

5.2 Drive Installation

1. **3.5" SATA/NVMe Drives:** Open the drive bay latch, slide the drive into the bay until it clicks into place. For NVMe U.2 drives, ensure the correct backplane configuration is in place.
2. **2.5" SATA Rear Drives:** Locate the rear 2.5" drive bays. Slide the drives into the bays until secured.
3. **M.2 NVMe Drive:** Install the M.2 drive into the dedicated M.2 2280 slot on the motherboard, securing it with the provided screw.

5.3 Memory Installation

Install DDR4 3200 DIMMs into the 16 available slots. Refer to the motherboard manual for specific memory population rules to optimize performance.

5.4 Power Connection

Connect the power cord(s) to the server's power supply unit(s) and then to a grounded power outlet or PDU. Ensure all power connections are secure.

5.5 Initial Boot

Press the power button on the front panel. Monitor the boot process and access the BIOS/UEFI setup as needed to configure boot devices, RAID arrays, and other system settings.

6. OPERATING INSTRUCTIONS

6.1 Operating System Installation

Install your preferred operating system (e.g., Windows Server, Linux distribution) using a bootable USB drive or network installation. Ensure all necessary drivers are installed for optimal hardware performance.

6.2 Storage Configuration

Configure your storage drives. For SATA drives, you may use the onboard RAID controller or a separate HBA. For NVMe drives, ensure the operating system has the appropriate drivers. Create logical volumes or file systems as required for your application.

6.3 Network Configuration

Configure the network interfaces, including the OCP v2.0 LAN mezzanine card, with appropriate IP addresses, subnet masks, and gateway settings for your network environment.

7. MAINTENANCE

7.1 Cleaning

Regularly clean the server's exterior and ensure air vents are free from dust accumulation. Use compressed air to clear dust from internal components, ensuring power is disconnected first.

7.2 Firmware Updates

Periodically check the manufacturer's website for updated BIOS/UEFI, BMC, and RAID controller firmware. Apply updates as recommended to improve stability, performance, and security.

7.3 Drive Replacement

The server features hot-swap drive bays. For failed drives, identify the faulty unit, unmount it from the operating system (if applicable), and carefully remove it. Insert a new, compatible drive, ensuring it seats correctly.

8. TROUBLESHOOTING

8.1 No Power

- Check power cord connections to the server and power outlet.
- Verify the power supply unit (PSU) status indicators.
- Ensure the power outlet is functional.

8.2 System Not Booting

- Check memory modules are properly seated.
- Verify boot device order in BIOS/UEFI.

- Listen for POST (Power-On Self-Test) beep codes and consult the motherboard manual for their meaning.

8.3 Drive Not Detected

- Ensure the drive is fully seated in its bay.
- Check drive status LEDs.
- Verify cabling for non-hot-swap drives.
- Check BIOS/UEFI or RAID controller settings for drive detection.

9. SPECIFICATIONS

Feature	Detail
Model	B7126T65V10E4HR Thunder SX TS65-B7126
Manufacturer	TYAN
Memory Support	16 DIMM slots, DDR4 3200
Front Drive Bays	12 x 3.5" SATA (hot-swap, tool-less) w/ opt. 4 NVMe U.2
Rear Drive Bays	2 x 2.5" SATA (hot-swap, tool-less)
Internal M.2 Slot	1 x NVMe/PCIe 3.0 x2 M.2 2280
LAN Mezzanine Slot	PCIe 3.0 x16 OCP v2.0 (Type 1)
ASIN	B0BLGZ15V10E4HR
Date First Available	November 4, 2022

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TYAN website or contact your authorized reseller. Keep your proof of purchase for warranty claims.

Online Resources: Visit the TYAN official website for the latest drivers, firmware, and additional documentation.