OWC JMIN0535R020H2

OWC Jupiter Mini 5-Bay Desktop NAS System User Manual

Model: JMIN0535R020H2 | Brand: OWC

1. Introduction

The OWC Jupiter Mini is a high-performance 5-bay desktop Network Attached Storage (NAS) system designed for small businesses and workgroups. It features an Intel Xeon processor, 32GB of ECC DRAM, and dual 10GbE and 1GbE ports for fast and reliable data access. Pre-installed with TrueNAS™ Scale OS, it offers an enterprise-grade file system that ensures data safety and ease of use.
Key features include:

- High-performance networking with 2x 10Gb and 2x 1Gb Ethernet ports for rapid file access.
- Enterprise-class file system that automatically ensures file safety, even in the event of drive failure.
- Scalability to connect 50+ users without slowdowns, supported by an Intel Xeon processor and 32GB ECC DRAM.
- User-friendly TrueNAS™ Scale OS pre-installed, compatible with Mac, PC, and Linux systems.
- Comprehensive support including a 3-Year Limited Warranty covering both the system and hard drives.

Figure 1.1: The OWC Jupiter Mini NAS system, demonstrating its compact design suitable for desktop environments.

2. Setup Guide

2.1 Unpacking and Initial Inspection

Carefully remove the OWC Jupiter Mini from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Ensure all components listed in the packing slip are present, including the power cable and any included documentation.

Figure 2.1: Front view of the OWC Jupiter Mini, showing the five drive bays.

2.2 Connecting the System

1. **Power Connection:** Connect the provided power cable to the power input on the rear of the Jupiter Mini and then to a grounded electrical outlet.
2. **Network Connection:** Connect one or more Ethernet cables from the Jupiter Mini's network ports (10GbE or 1GbE) to your network switch or router. For optimal performance, utilize the 10GbE ports if your network infrastructure supports it.
3. **Optional Connections:** If desired, connect a monitor via the VGA port, and a keyboard/mouse via the USB ports for direct console access, though initial setup is typically performed via the network.

Figure 2.2: Rear panel of the OWC Jupiter Mini, showing the dual 10GbE, dual 1GbE, and USB ports, along with the power input.

2.3 First Boot and OS Initialization

After connecting power and network, press the power button on the front of the unit. The system will begin booting the pre-installed TrueNAS™ Scale OS. Allow several minutes for the initial boot process to complete. Once booted, you can access the TrueNAS web interface from a computer on the same network by entering the NAS's IP address into your web browser. Refer to the TrueNAS Scale documentation for detailed initial configuration steps, including setting up storage pools and user accounts.

3. Operation

3.1 Accessing the NAS

The primary method for managing and accessing the OWC Jupiter Mini is through its web-based TrueNAS Scale dashboard. Once the system is powered on and connected to your network, you can access the dashboard from any web browser on a connected device. The dashboard provides a comprehensive interface for monitoring system status, managing storage,

configuring network settings, and controlling user access.

Figure 3.1: The TrueNAS Scale dashboard, providing a centralized view of system performance and storage.

3.2 File Management and Data Sharing

TrueNAS Scale allows you to create and manage various types of shares (e.g., SMB/CIFS for Windows, NFS for Linux/Unix, AFP for macOS) to make your data accessible across different operating systems. You can define user accounts, groups, and permissions to control who can access specific files and folders, ensuring data security and privacy within your network.

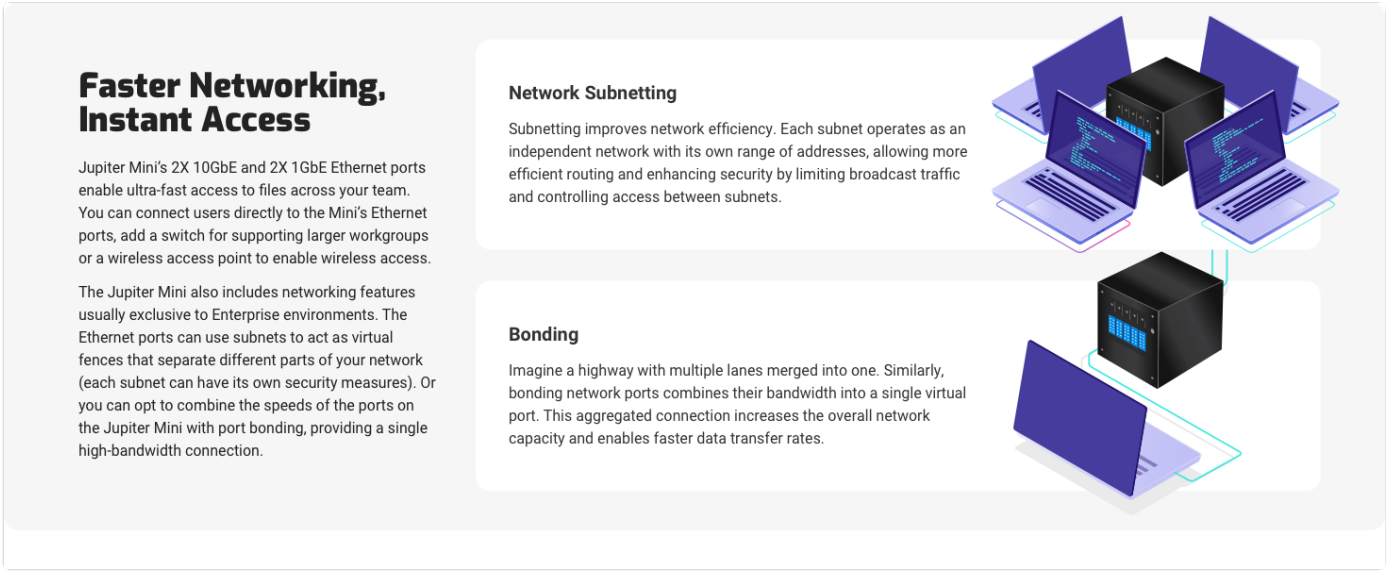

Figure 3.2: The Jupiter Mini facilitating fast networking and instant access for multiple users.

3.3 Remote Access

The Jupiter Mini supports remote access capabilities, allowing users to access files from anywhere with an internet connection. This can be configured through services like OpenVPN, ZeroTier, or by setting up port-forwarding on your corporate firewall. Consult the TrueNAS Scale documentation for detailed instructions on configuring secure remote access.

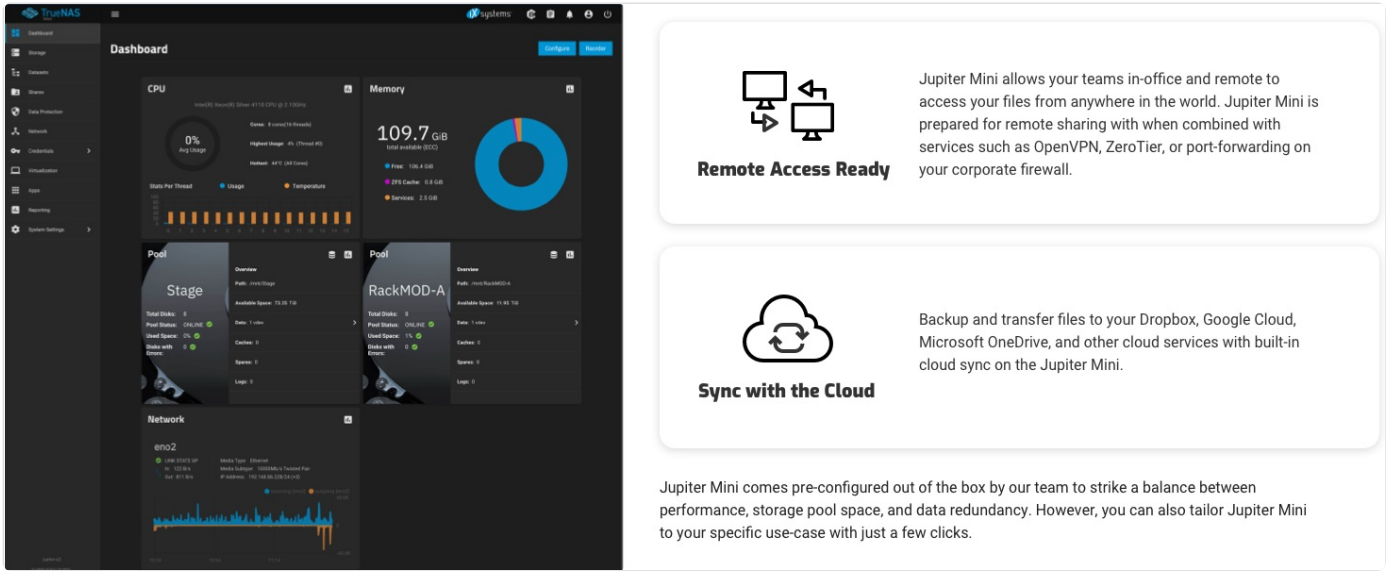

Figure 3.3: TrueNAS features for remote access and cloud synchronization.

4. Maintenance

4.1 Data Integrity and Protection

The OWC Jupiter Mini utilizes the ZFS file system, which provides robust data integrity features. ZFS automatically detects and corrects data corruption, ensuring your files remain safe and consistent. It also supports snapshots, allowing you to revert to previous versions of your data in case of accidental deletion or modification. Regular backups to an off-site location are always recommended as an additional layer of data protection.

Figure 4.1: Visual representation of the Jupiter Mini's data reliability features.

4.2 Software Updates

Regularly check for and apply TrueNAS Scale OS updates through the web interface. Updates often include security patches, bug fixes, and new features that enhance the performance and stability of your NAS system. Always review release notes before applying major updates.

4.3 Drive Management

The Jupiter Mini's 5-bay design allows for flexible drive configurations. Monitor the health of your drives through the TrueNAS dashboard. In the event of a drive failure, the ZFS RAID configuration allows for hot-swapping of drives (if supported by your specific setup and drive type) to maintain data availability. Consult the TrueNAS documentation for proper drive replacement procedures.

5. Troubleshooting

5.1 Common Issues

- **No Power:** Ensure the power cable is securely connected to both the NAS and a working electrical outlet. Verify the power button is pressed.
- **No Network Connectivity:** Check Ethernet cable connections to the NAS and your network switch/router. Verify network settings in the TrueNAS dashboard. Ensure your router's DHCP server is functioning correctly or that the NAS has a valid static IP.
- **Cannot Access Web Interface:** Confirm the NAS is powered on and connected to the network. Verify you are using the correct IP address or hostname. Try clearing your browser's cache or using a different browser.
- **Slow Performance:** Check network cable quality and ensure 10GbE connections are properly utilized if available. Monitor CPU and memory usage in the TrueNAS dashboard. Ensure drives are healthy and not experiencing high I/O load.

5.2 Seeking Support

If you encounter issues that cannot be resolved using the troubleshooting steps above, please refer to the official TrueNAS Scale documentation online or contact OWC customer support. Provide your product model number (JMIN0535R020H2) and a detailed description of the problem when seeking assistance.

6. Technical Specifications

Feature	Specification
Product Dimensions	12.8 x 8.7 x 8.9 inches (12.8"D x 8.7"W x 8.9"H)
Item Weight	28.2 pounds
Manufacturer	Other World Computing
ASIN	B0C689VDS6
Item Model Number	JMIN0535R020H2
Date First Available	May 24, 2023
Brand	OWC
Color	Black
Size (Capacity)	20TB (as configured)
Material	Metal

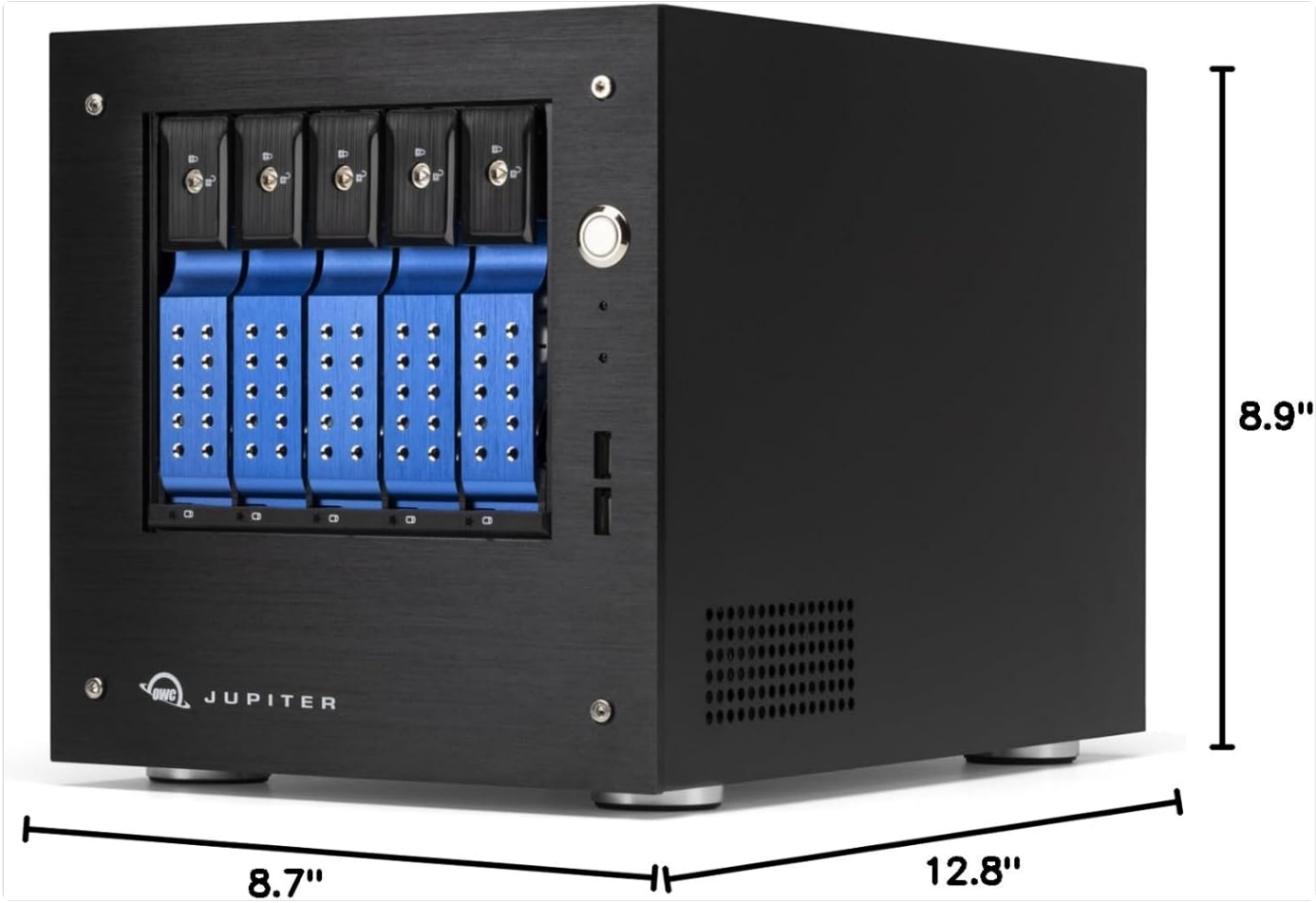

Figure 6.1: Dimensions of the OWC Jupiter Mini NAS system.

7. Warranty and Support

The OWC Jupiter Mini 5-Bay Desktop NAS System is backed by OWC's commitment to quality and customer satisfaction.

- **Limited Warranty:** This product includes a 3-Year Limited Warranty that covers both the system and the pre-installed hard drives. This warranty protects against defects in materials and workmanship under normal use.
- **Professional Support:** OWC provides professional support for the Jupiter Mini. For technical assistance, warranty claims, or general inquiries, please visit the official OWC support website or contact their customer service department.
- **Protection Plans:** Additional protection plans may be available for extended coverage. Please refer to your purchase documentation or the OWC website for details on available protection plans.

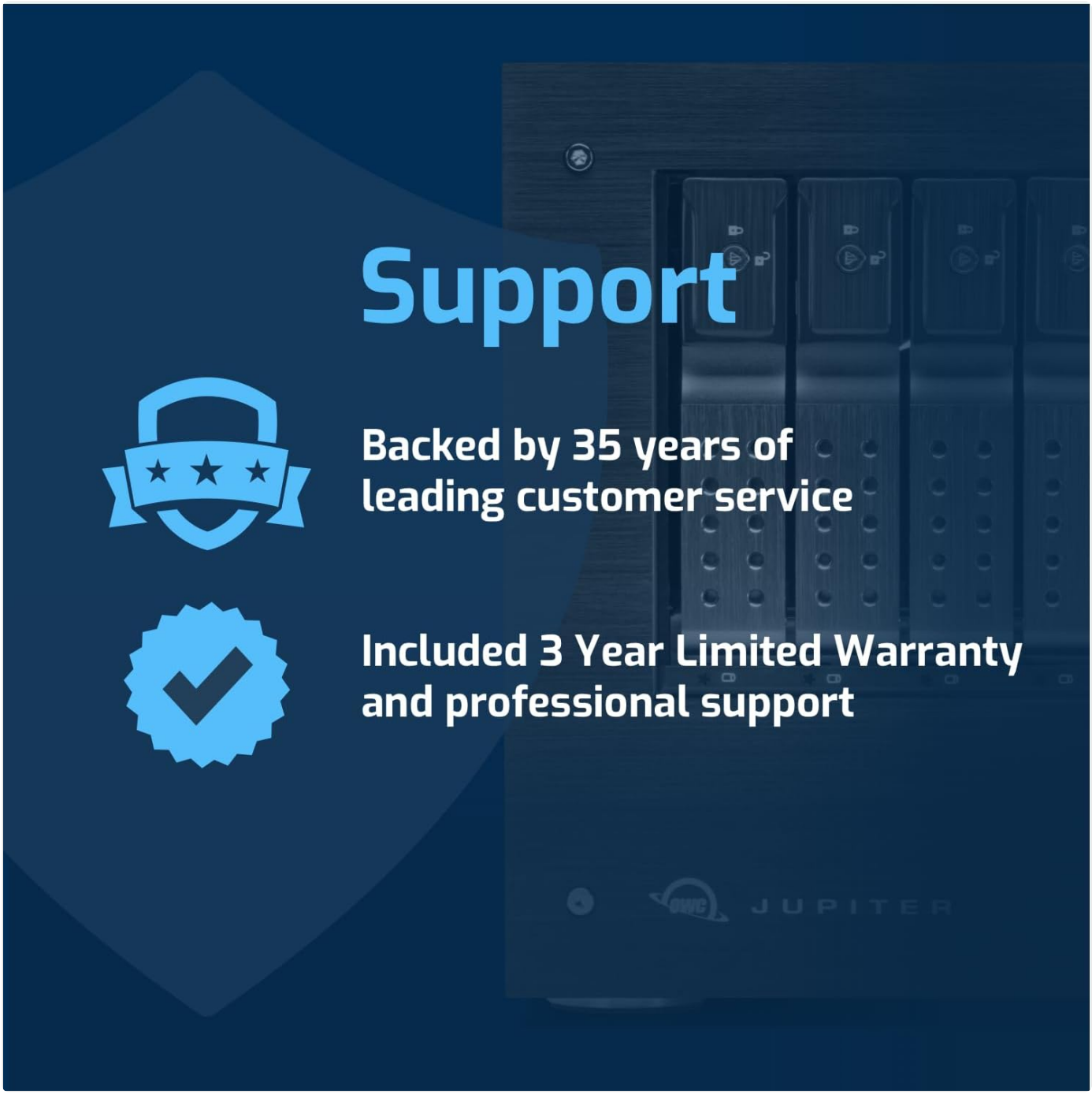

Figure 7.1: OWC's commitment to support and warranty for their products.