RamSan-320 Quick Start Guide

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1 Unpack System

Review packing list
TMS ships the RamSan with a packing list. Ensure that you have received all of the components listed.

Inspect RamSan for shipping damage
- Examine the external chassis and front panel display for any damage that might have occurred during shipping.
- Ensure that both power supplies are locked securely in place and that the internal hard disk drives have not come loose. Inspect the interface plate for any screws that might have loosened during shipping.
- Report any meaningful damage to Texas Memory Systems immediately.
- Save the packing materials for future shipping

2 Rack mount the RamSan
(Optional)
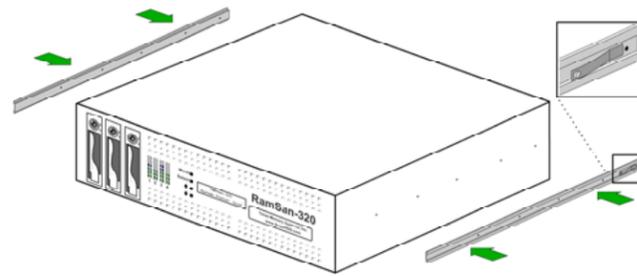
Attach inner glides to the RamSan
The RamSan-320 solid state disk is a 3U rack-mountable system. TMS ships the system with the slides and equipment needed to install it into a standard 19" rack.

The end of the inner glide with a spring points toward the back of the unit.

Attach slide assembly to rack
To assemble the slide assembly, follow the detailed instructions included in the rack mount kit.

3 Connect power cables and Ethernet cable
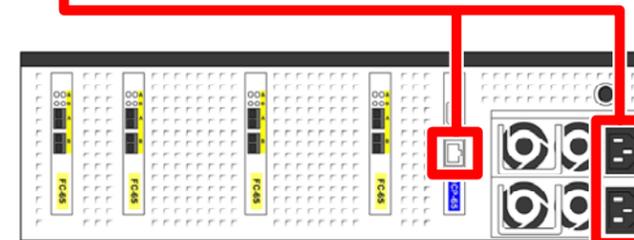
Connect power cables
TMS equips the RamSan with dual redundant hot-swappable power supplies that operate on universal 110/220 VAC line power. A fully loaded RamSan requires approximately 350 watts of power. Using the provided AC power cords, connect both power supplies to a power source. The RamSan automatically powers on when power is connected to the system. For additional information, please see *Section 2.6* of the *RamSan User's Manual*.

**Connect Ethernet cable for management**
The management port comes equipped with a 10/100/1000 Ethernet port. This provides the easiest method for managing the RamSan-320. Alternatively, you can use the serial port for management (see *Section 3.2* of the *RamSan User's Manual*).

4 Configure Ethernet settings

Set the RamSan's IP address
The RamSan's default Ethernet setting is DHCP. To setup a static IP via the front panel, press the **Menu** button and then press the down arrow button until "**Ethernet Setup**" appears. Use the **Select** button to choose this option and continue with the configuration. Now, you may use the arrow buttons to scroll through the following menu options:


```
Set IP Config
        Static
                Ethernet IP
                _
```
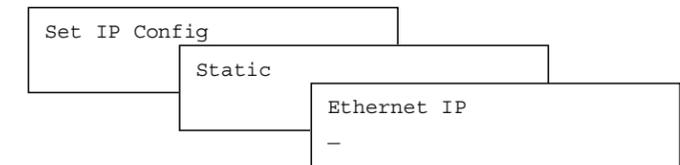
Use the arrow buttons to cycle through the numbers "**0**" through "**9**". To select the value, use the **Select** button. Then, the input prompt moves to the next character position. To back up a space, press both arrow buttons simultaneously. Repeat this procedure until you have entered the 4-byte address. To cancel the Static IP assignment at any time, press the **Menu** button. Follow the same instructions to enter the Subnet Mask and Gateway (optional). Make note of the IP address for later steps. For additional information, please see *Section 4.3* of the *RamSan User's Manual*.

5 Connect to the Web Management Interface
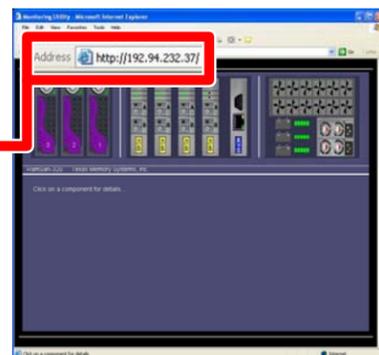
Enter the RamSan's IP address in a browser
To access the Web Management Interface, enter the unit's IP address (from Step 4) in a java capable web browser:

http://xxx.xxx.xxx.xxx

Default username: admin
Default password: ssd

You can also access the configuration options through Telnet or by connecting a monitor to the RamSan's serial port. For information about changing the default password, see *Section 4.1.2* of the *RamSan User's Manual*.

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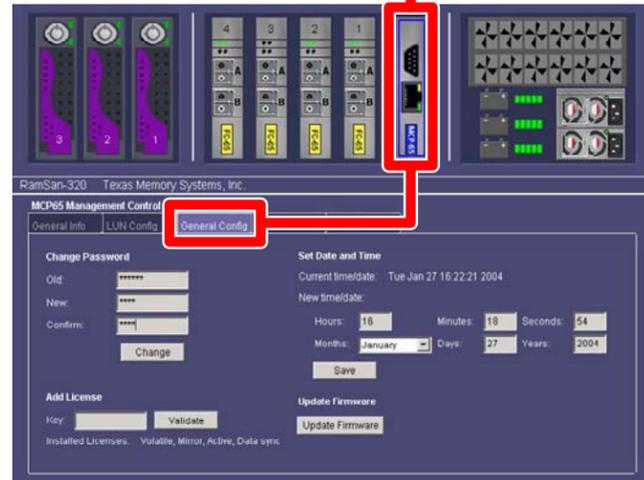
6 Set system time

Set the RamSan's system time

The first step in configuring the RamSan is to set the system time, which the system's logs use. From the web interface, click on the "MCP" graphic and then click on the "General Config" tab.

To set the time, enter the new time (24-hr format) and date and click the "Save" button.

The web interface will display the updated time under "Current time/date."

7 Configure controllers


Configure all Fibre Channel controllers

Click on the "FC-65" graphic and then click on the "Controller Setup" tab.

The RamSan allows the user to select the topology, link speed, and failover options for the Fibre Channel Controllers. RamSan supports Point-to-Point and Arbitrated loop topologies and can auto-detect the topology. It supports 1- and 2-Gbit link speeds and can auto-detect the speed. When more than one Fibre Channel Controller is installed, the controller's failover mode can be set.

By default, the RamSan's ports are set to auto-detect topology and link speed.

For more information, see *Chapter 7* of the *RamSan User's Manual*.

8 Configure LUNs
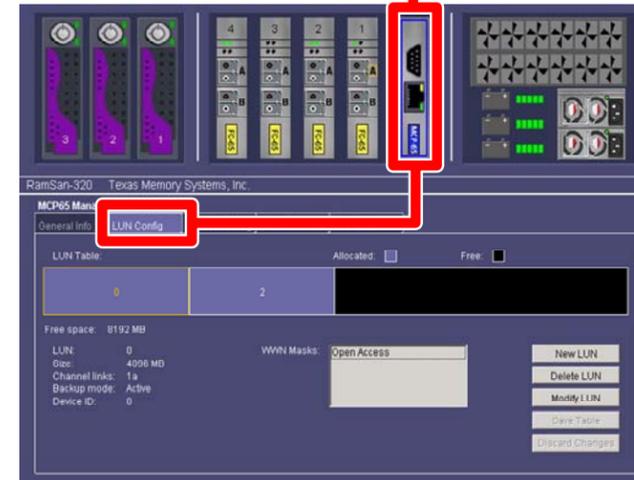
Configure the RamSan's LUNs

Click on the "MCP" graphic and then click on the "LUN Config" tab.

The extremely versatile RamSan-320 supports a variety of configurations and access control methods. LUN configuration is a memory-partitioning tool that allows the administrator to configure system memory into LUNs (Logical Unit Numbers) that may be assigned to specific Fibre Channel ports in the RamSan. In addition, the administrator can assign LUN specific backup modes (for the RamSan-320) and assign the LUNs' access lists, which mask the visibility to specific servers. Note: The LUN table cannot be changed while the system is restoring from disk.

For more information, see *Chapter 6* of the *RamSan User's Manual*.

9 Connect Fibre Channel cables

4   3   2   1
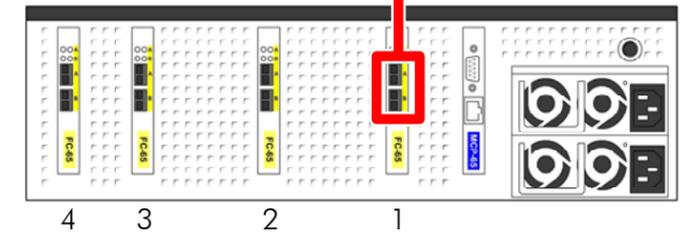
Attach Fibre Channel to the configured ports

After you have configured the system, connect the Fibre Channel ports on the RamSan to either your server's HBA ports or to a Fibre Channel switch.

The graphic, above, shows the port layout for the RamSan. Each controller has two Fibre Channel ports: A and B, on the top and bottom respectively. When connected, both lights should be solid green for 2-Gbit or the right light will be amber for 1-Gbit. If the lights are off or flash rapidly before you begin to move data, check the cables and attempt to configure different topology and link speed settings.

10 Verify host LUN detection

Check the host to ensure that it detected the RamSan-320's LUNs. If the host fails to detect the LUNs after connecting the Fibre Channel cables, check your cable connections, verify HBA driver installation, and follow your operating system's instructions for detecting or refreshing LUNs. You may need to reset your host before the LUNs will be available.

? Additional questions

For additional details and options, please refer to the *RamSan-320 User's Manual*.

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RamSan-300/320 User's Manual

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If you have additional questions or need help in the installation process, please contact us:

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