TrueNAS® M-Series Unified Storage Array
Basic Setup Guide

May 2018 Edition
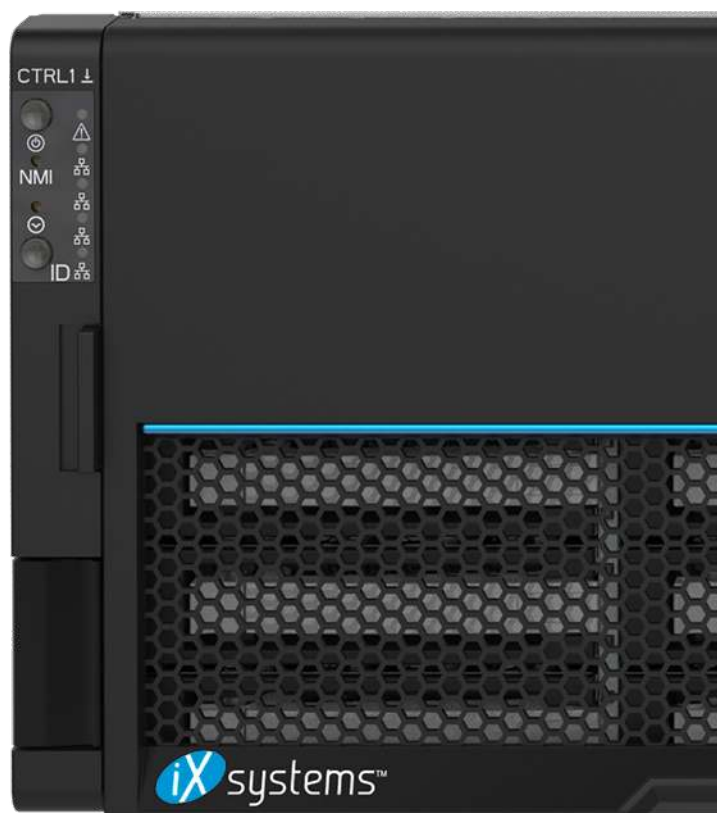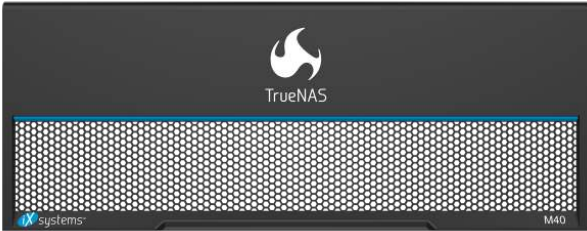
1 M-Series Unified Storage Array

The TrueNAS® M-Series Unified Storage Array is a 4U, 24-bay, hybrid unified data storage array.

Note: TrueNAS® units are carefully packed and shipped with trusted carriers to arrive in perfect condition. If there is any shipping damage or any parts are missing, please take photos and contact iXsystems support immediately at `support@iXsystems.com` or 1-855-GREP4-iX (1-855-473-7449) or 1-408-943-4100.

Please locate and record the hardware serial numbers on the back or side of each chassis for easy reference.

Carefully unpack the shipping boxes and locate these components:

M-Series Unified Storage Array	M-Series Bezel
Set of rackmount rails	Up to 24 drive trays populated with drives
DB9 to 3.5mm serial cable	Accessory kit with 2 IEC C13 to NEMA 5-15P power cords, 2 IEC C14 to C13 cords, velcro cable ties, M4x4L screws, M5x18 screws, screw posts, and alternate pins for round hole racks

1.1 Become Familiar With the M-Series System

The M-Series has front panel indicators for power, locate ID, and fault. The fault indicator is on during the initial power-on self-test (POST) and turns off during normal operation. It turns on if the TrueNAS® software issues an alert (https://support.ixsystems.com/truenasguide/tn_options.html#alert).

The M-Series contains one or two storage controllers in an over-and-under configuration. The connectors and features on each storage controller are:

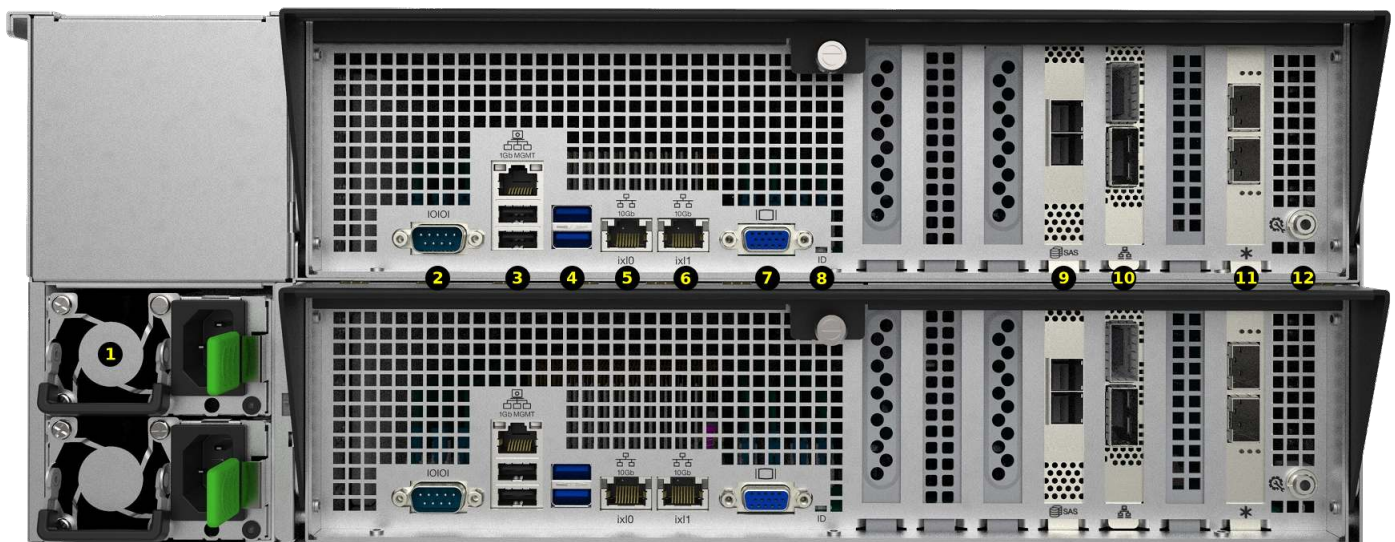|	
1: Redundant power supplies	7: VGA monitor port
2: Serial port	8: ID LED
3: 1Gb Ethernet Out of Band (OOB) management port, dual USB 2.0 ports	9: HD Mini SAS3 connectors
4: Dual USB 3.0 ports	10: Networking port
5: 10Gb Ethernet port	11: Asterisk slot: Fibre Channel or additional networking
6: 10Gb Ethernet port	12: Storage controller management port

Fig. 1: Back Panel

1.2 ES24 and M-Series Rail Kit Assembly

1.2.1 Remove Cabinet Rails from Rack Rails

Extend the cabinet rail until it stops. To remove the cabinet rail, press the white release tab to the right while pulling the cabinet rail.
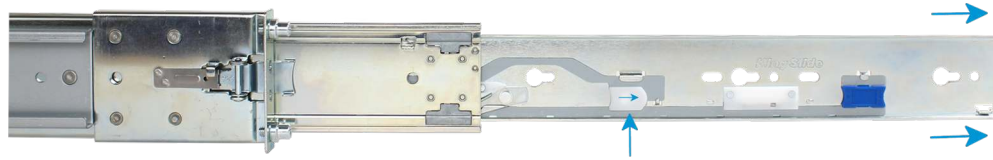
1.2.2 Mount Cabinet Rails

The cabinet rails are mounted on both sides of the system cabinet. Align the cabinet rail keyholes with the three posts (ES24) or four posts (M-Series) on the side of the chassis and slide the rail until the post is wedged in the keyhole slot of the rail.
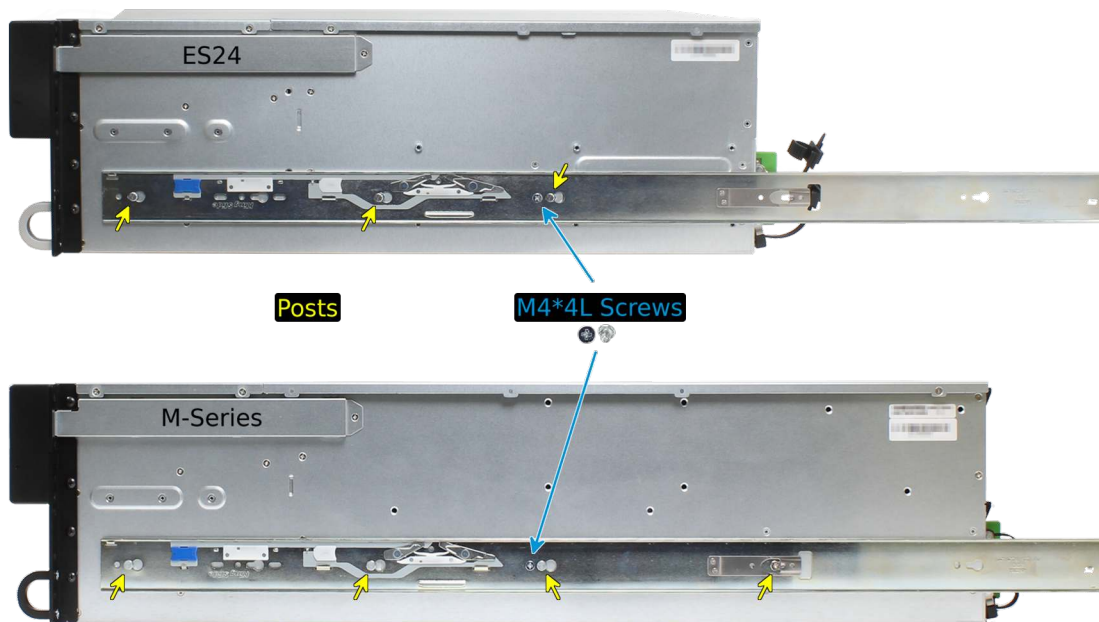
Align the rail hole with the screw hole and secure the rail with one M4x4L screw from the rail kit. Repeat this process to mount and secure the second cabinet rail on the other side.

1.2.3 Mount the Rack Rails

Place the rail in the rack with the front end toward the front of the rack, aligning the pins with the mounting holes in the front of the rack. Push the pins into the holes until the latch clicks.

For the rear end of the rail, align the pins with the mounting holes on the rear rack. Pull the white latch toward the rear until the pins click in place. Repeat this process for the second rear rail.

1   **2**   **3**

10   10

Latch

09   09

Front   **Rear**
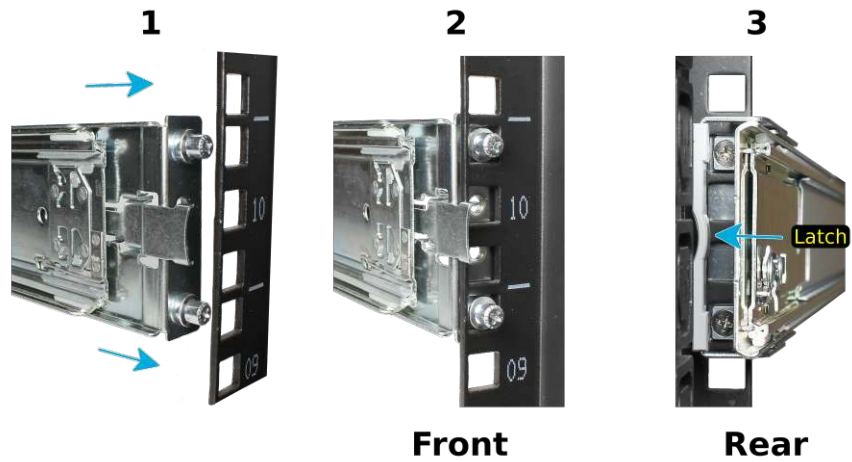
1.2.4 Mount the Unit in the Rack

Caution: Two people are required to safely lift the chassis for rack installation or removal. Do not install drives until after the chassis has been installed in the rack, and remove all drives before removing the chassis from the rack.

Pull the front rack rail forward until it stops. Align the cabinet rail with the inside of the front rack rail and slide the cabinet rail forward until it is fully seated inside the rack rail. Repeat the process for the second rail.

When both cabinet rails are secured inside of the rack rails, gently push the chassis until it stops halfway in. Slide the blue release tabs on both cabinet rails toward the front of the system while pushing the unit in until it is flush with the front of the rack.

Anchor the unit in the rack on both sides with the M5x18 screws included in the rail kit.

1.3 Install Drive Trays

Drive trays are used to mount drives in the array. Drive trays are installed in drive bays in the chassis. Each drive bay in the chassis has two indicator LEDs to the right of the tray. The status LED is blue when the drive is active, and the fault LED is red if a fault has occurred.

Press the silver button on the drive tray to open the latch. Carefully slide the tray into a drive bay until the right side of the latch touches the metal front edge of the chassis, then gently swing the latch closed until it clicks into place.

1.4 Connect Expansion Shelves

Refer to the installation instructions included with expansion shelves for details on connecting them.

1.5 Connect Network Cables

Note: Network cables vary by configuration and are not included. Please contact iX Support (page 6) with any questions.

Connect network cables to the Ethernet ports and Out-of-Band (OOB) management port before attempting to power on and configure the M-Series for the the first time.

1.6 Connect Power Cords

Do not plug the power cords into a power outlet yet. Connect a power cord to the back of one power supply. Place the cord into the plastic clamp and press the tab into the latch to lock it in place. Repeat the process for the second power supply and cord.

After both power cords have been connected to the M-Series, they can be plugged into power outlets. The system is configured to automatically power on when connected to a power outlet. This design ensures that the M-Series comes back on when power is restored after a power failure.

1.7 Install Bezel (Optional)

The included bezel is not required for operation.

1.8 Perform TrueNAS® Initial Software Configuration

The console displays the IP address of the TrueNAS® M-Series graphical web interface, 192.168.100.231 in this example:

```
The web user interface is at:

http://192.168.100.231
```

Enter the IP address into a browser on a computer on the same network to access the web user interface.

2 User Guide

The TrueNAS® User Guide with complete configuration instructions is available by clicking Guide in the TrueNAS® user interface or at https://support.ixsystems.com/truenasguide/truenas.html.

3 Contacting iXsystems

For assistance, please contact iX Support:

Contact Method	Contact Options
Web	https://support.ixsystems.com
Email	support@iXsystems.com
Telephone	Monday - Friday, 8:00AM to 5:00PM Pacific Standard Time: • 1 (855) 473-7449 option 2 (US-only toll-free) • 1 (408) 943-4100 option 2 (local and international)
Telephone	After Hours (24x7 Gold Level Support only): • 1 (855) 499-5131 (US-only toll-free) • 1 (678) 835-6101 (local and international)