

# TrueNAS® Expansion Shelves

## Bolster your storage

To meet the demands of today's applications, businesses need to store more data or move to an all-flash data center. In addition to Windows configurations, the modern business has to support a full range of storage protocols for Apple, Unix, and mobile devices. Thousands of terabytes of data needs to be retained for analysis by Big Data applications. To support these and other business requirements, and to reduce storage sprawl, they've turned to TrueNAS.

TrueNAS scales for a business that never sleeps: seamlessly add drives to a TrueNAS head or deploy expansion shelves.

## HARDWARE SPECIFICATIONS

### AVAILABLE DEVICES

- 7.2k RPM: 2 TB, 3 TB, 4 TB, 6 TB and 8 TB
- 10k RPM: 300 GB, 600 GB, 900 GB, 1.2 TB & 1.8 TB
- NL-SAS 2 TB, 3 TB, 4 TB, 6 TB and 8 TB
- SSD's: 250 GB/400 GB/500 GB/800 GB/1 TB/1.6 TB/1.92 TB/3.84 TB
- TrueCache™ Read/Write Cache

### POWER MANAGEMENT

- Dual redundant, hot-swappable cooling
- Dual redundant hot-swappable high-efficiency (90%+) power supplies
- Remote power-on/off
- UPS Signal Response and Alerts

\* Power calculations are without hard drives populated. Drive calculations can be made using the following maximum guidelines (per drive):  
3.5" 7200RPM - 13W; 3.5" 10K RPM - 14W; 3.5" 15K RPM - 15W; 2.5" 10K RPM - 10W; SSD - 15W

### AVAILABLE EXPANSION SHELVES

#### TRUENAS ES12

- Supports TrueNAS X10/X20
  - Up to 2 shelves
- Up to 12 2.5"/3.5" hot-swap drives for a maximum capacity of 120 TB
- SAS interface
- Power draw\* 36 Watts
- 2RU, DIMENSIONS 20.9"x17.6"x3.5" (LxWxH)
- Empty weight: 75lb
- RoHS 6/6 compliant

#### TRUENAS ES24

- Supports TrueNAS Z30, Z35, and Z50
  - 4 shelves for Z30, Z50 and 8 shelves for Z35
- Up to 24 2.5"/3.5" hot-swap drives for a maximum capacity of 240 TB in an ES24
- SAS interface
- Power draw\* 80 Watts
- 4RU, DIMENSIONS 20.5"x19"x7" (LxWxH)
- Empty weight: 40lb
- RoHS 6/6 compliant

#### TRUENAS ES60

- Supports TrueNAS X20 and TrueNAS Z35
  - 1 shelf for X20
  - 8 shelves for Z35
- Up to 60 2.5"/3.5" hot-swap drives for a maximum capacity of 600 TB in an E60
- SAS interface
- Power draw\* 101 Watts
- DIMENSIONS 39.5"x16.69"x6.9" (LxWxH)
- Empty weight: 85lb
- RoHS 6/6 compliant



	Base Unit Storage Controller + Drives	All ES12s	All ES24s	All ES60s
X10 Max Capacity	120 TB	360 TB	Not supported	Not supported
X20 Max Capacity	120 TB	360 TB	Not supported	720 TB
Z30 Max Capacity	150 TB - One slot is used by cache	Not supported	1.1 PB	Not supported
Z35 Max Capacity	N/A - Requires one expansion shelf	Not supported	1.92 PB	4.8 PB
Z50 Max Capacity	60 TB	Not supported	430 TB	Not Supported



Call or Click Today

855-GREP-4-IX (US) | 408-943-4100 (non-US) | [iXsystems.com](http://iXsystems.com)

iXsystems | 2490 Kruse Drive | San Jose, CA 95131

Copyright © 2017 iXsystems. TrueNAS is a registered trademark of iXsystems, Inc. All rights reserved.

