

Netra™ st D130 Rackable Thin Storage



Network Systems

Netra st D130

Rackable Thin Storage

- 1 rack-unit high
- Rack mount
- 54GB of hot-swap disks
- Service provider features
- Incremental storage applications



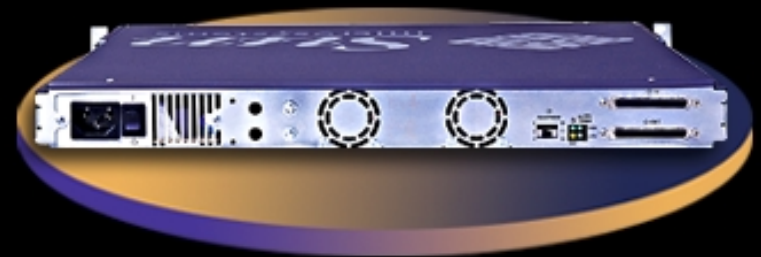
Netra st D130 Thin Storage: Storage Features

- Up to three hot-swap disks
- High performance 10K rpm disks
- Ultra™ SCSI single-ended connect to host
- Dual SCSI connectors
- Auto termination
- Up to two enclosures per SCSI chain
- Dual host support on Sun™ Cluster software



Netra st D130 Thin Storage: Service Provider Features

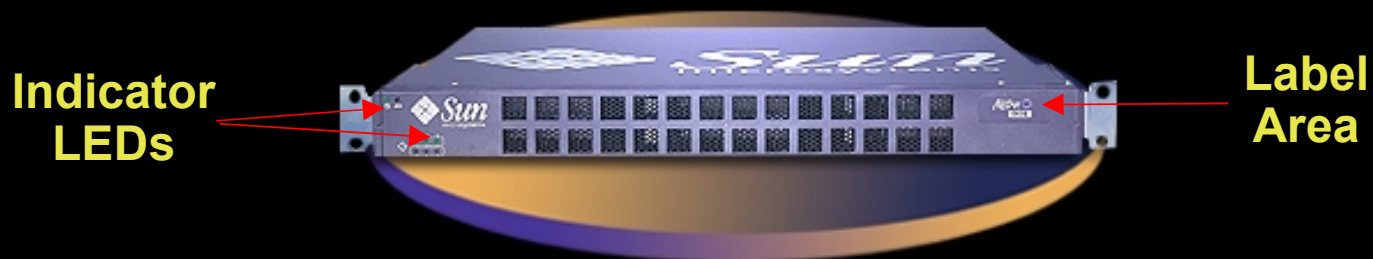
- Telcordia NEBS Level 3–certified
- Choice of AC or -48V DC power
- Rack-mountable
 - Front, center, front/back
 - Fixed or rail
 - 19", 23", 24", 600 mm
 - Dimensions:
1.75" x 17.2" x 18.6"
- Dual cooling fans
- Isolated ground chassis (DC version)



Back of Netra st D130

Netra st D130 Thin Storage: Serviceability Features

- **Status LEDs in front and back of unit**
 - Power status
 - Enclosure operating status
- **Activity LED for each disk**
- **Server software for remote status**
 - Drive and enclosure status
- **Simplified Field Replaceable Units (FRUs)**
- **Common drive for all Netra™ products**
- **Labeling area for customer identification**



Why Telcordia NEBS Level 3?

- **Ruggedness**
 - Earthquake
 - Operating temperature
 - Humidity
 - EMI containment
 - Fire containment
 - Form, fit and function
- **Required for Central Office, Points of Presence**



Netra st D130 Thin Storage: Supported Platforms

- Netra t 1120, 1125
- Netra t 1
- Netra t 1400, 1405
- Enterprise 220R, 420R
- Enterprise 4500 (boot disk)
- Other platforms (more to come ...)
- Sun™ Cluster 2.2



Netra st D130 Applications: Target Applications

- **Rack mount, incremental storage**
- **Hot-swap, redundant system disks for Netra t 1120/1125 and other Sun servers**
- **Clustering**
- **Service providers/telecom/NEBS storage**

Netra st D130 Applications: Service Providers

Web Cache

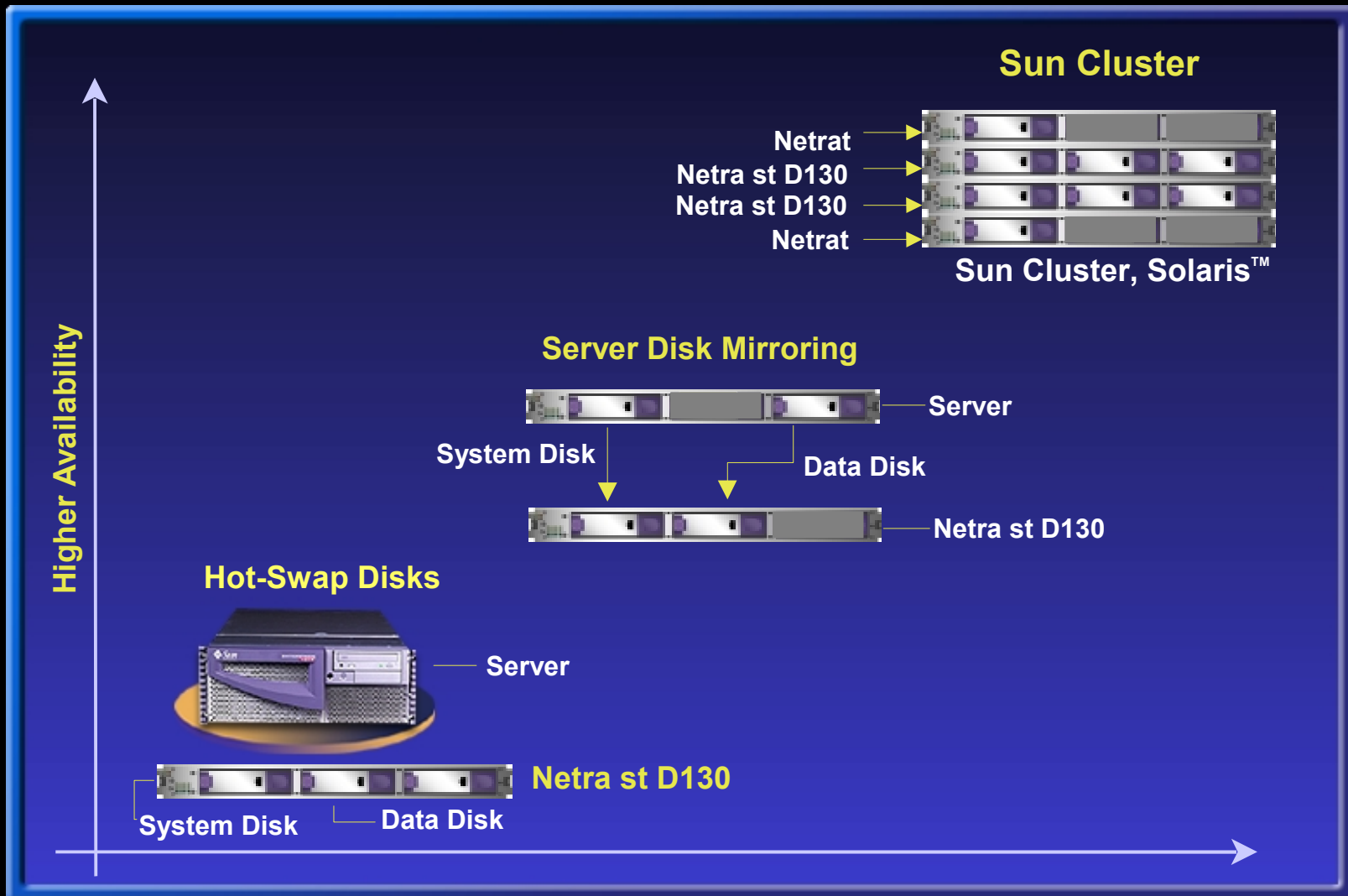
Web Server

E-Mail MTA, Server

Netnews

Logging

Netra st D130 Applications: Server Availability



Netra st D130 Thin Storage: High-Availability Deployment

- **Mirroring**
 - Two Netra st D130 + mirroring software on host
- **Clustering**
 - Connect to two hosts
 - Sun Cluster software support

Netra st D130 Thin Storage: Features

- < 100GB per SCSI chain
- Rack mount with minimal height
- 18.6" depth
- AC or -48VDC power
- JBOD or host-based RAID
- NEBS or ETSI requirements
- Low entry cost
- Service provider environment



Telecom Storage Product Line

- **Netra st A1000/D1000**
 - Telecom storage arrays
 - RAID
 - JBOD
 - 4U high
 - 21" deep
 - 19" rack-mountable
- **Netra st D130**
 - Telecom/ISP thin storage expansion
 - JBOD
 - 1U high
 - 18" deep
 - 19" rack-mountable



**Ultra SCSI Diff (HVD)
Shipping Product**



**Ultra SCSI SE
Shipping Product**

Netra st D130 Thin Storage: Competitive Landscape

**>2U
Height**

- Netra st a1000/D1000
- DotHill (Artecon) arrays

- Dell array
- Compaq arrays

**Thin
Storage**

- Netra st D130
(1U, 3 disks)



- HP Rack-n-Stack
(2U, 2 disks)
- Integrix RD10
(2U, 6 disks)
- Penguin computing
(2U, 4 disks)
- Cobalt NASRaQ
(1 disk nonhot-swap)

Carrier-Grade

Noncarrier-Grade

Netra st D130 and Sun Storage Products

**>1U
Height**

- Netra st A1000/D1000

- Sun StorEdge™ A5X00
- Sun StorEdge A3500
- Sun StorEdge A1000/D1000
- Multipack

**Thin
Storage**

- Netra st D130



- Unipack

Service Provider

Enterprise/Desktop

Netra st D130 Thin Storage: Feature Summary

- Low profile (1U height)
- 19" rack mount, other rack options
- 430 mm (~18.6") depth

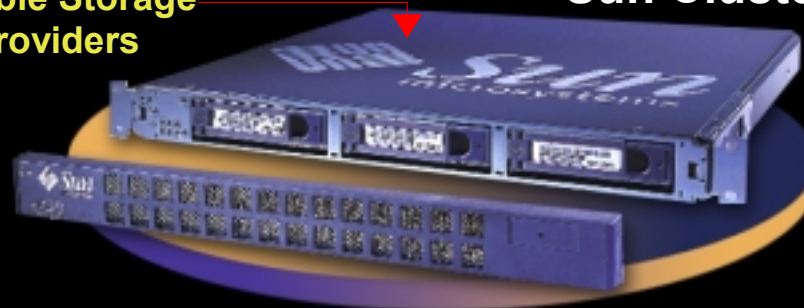
Storage Features

- Hot-swap disk drives
- Up to 3 x 18GB, 10K rpm
- Ultra SCSI, single-ended
- Dual SCSI connectors
- Auto-termination

Stackable Rackable Storage for Service Providers

Service Provider Features

- NEBS Level 3 certification
- -48V/-60V DC, AC power options
- Dual cooling
- FRU status LEDs, info. to host
- Front/rear status LED
- FRUs: disk drive, enclosure
- Customer labeling space
- Mirrored system disk support
- Sun Cluster software support



Netra st D130

For More Information:

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