

## Expansion Shelf

## Extended Data Retention for Nearline Storage

### Key Benefits

#### Scalable Nearline Storage

- > Store months of data for reliable recovery or longer term retention
- > Store more archive data

#### Ultra-Safe Storage for Reliable Recovery

- > Continuous recovery verification
- > Continuous fault detection and healing
- > Dual disk parity RAID-6

The Data Domain ES20 Expansion Shelf expands the usable storage for the Data Domain Appliance Series and Data Domain DDX Array Series, enabling months of nearline data retention.

The ES20 and Data Domain high-speed inline deduplication technology offer an average 20x data reduction, and Data Domain systems can support capacities up to 1.7 PB of logical storage per system for a typical enterprise data set and backup policy. The extended disk-based retention enables more cost-efficient, high-speed backups and more reliable recoveries and longer term data retention.

### GENERAL INFORMATION

#### External Interface (Host / Expansion)

- Dual 4 lane 3Gb serial attached SCSI (SAS) port.  
One for host and one for expansion
- SFF 8470 connectors (Infiniband style)
- 2 or 5 meter cable length

#### Maximum System Configuration

DD690: Six (6) 8 TB expansion shelves  
DD580: Three (3) 8 TB expansion shelves  
DD565: Two (2) 8 TB expansion shelves

### DISK DRIVES

#### Drives Supported

- 16 drive bays per expansion shelf
- Low profile, one inch high, 3.5 inch form factor
- SATA (3Gb) 500GB, 7200 RPM, Direct Dock (single port)
- Integrated SAS expander module
- Point-to-point disk connectivity

### SYSTEM AVAILABILITY

#### Hot Swappable Components

PSU/Cooling modules, disk drives, and disk controllers

### DIMENSIONS

#### System Dimensions (WxDxH)

19" x 21.7" x 5.12" (48.3 cm x 55.1 cm x 13 cm)  
3 EIA Units

#### Weight

78 lbs (35.5 kg)

### OPERATIONAL

#### Voltage

100 to 240V AC

#### Input Current

3.5 / 2.0 @ 120 / 230 VAC

#### Frequency

50 / 60 HZ

#### Power Consumption

420 W

#### Power Cords

Dual IEC detachable power cords

#### Thermal Rating

1434 BTU / hr

#### Operating Temperature

5°C to 35°C (41°F to 95°F)

#### Operating Humidity

20% to 80%, non-condensing

#### Operating Acoustic Noise

Max 58 dB LpA average measured at the bystander positions

### REGULATORY APPROVALS

#### Safety

CE to IEC950/EN60950-1 (Europe/Worldwide)  
UL and cUL to UL60950-1 (USA and Canada)

#### Emissions

FCC Class A, EN55022 Class A, EN55024

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