Dot Hill 3120 and 3130
JBOD Expansion Arrays

3130

3120

Benefits

Built in Redundancy
• Redundant, hot swappable power units, IO modules,
and fans make maintenance easy
• Hot swappable drives

Scalable Performance
• up to 7 expansion units per system
• max 144 drives - 3120, 96 - 3130

Rugged Chassis
NEBS Levell 3 Compliant
MIL STD 81OF Compliant (Storage Requirements)
European Telco Compliant

Expand your SAN as your Business Grows with easy, scalable tiered storage

As your need for storage increases, Dot Hill provides an easy to deploy and cost ef fective way to extend your fibre channel, SAS or iSCSI SAN. The 3120 or 3130 expansion unit can be quickly deployed to add the extra storage capacity you need.

Affordable Tiered Storage
A total of seven JBOD expansion units can be added. These high-ly flexible expanstion arrays support SAS, SATA, and SSD drives within a single chassis, allowing you the flexibility to manage tiered storage within a single system. Dot Hill storage systems offer an affordable, dynamic, flexible for any sized enterprise.

The 3120 JBOD expansion unit can support an additional 24 drives and the 3130 JBOD expansion unit can support an addi-tional 12 drives. These units easily expand the capacity of a customer's SAN.

The 3120 or 3130 JBOD array is controlled by the RAID con-troller of the primary unit and allows SAN expansion at a lower cost than a full RAID array.

Use the 3120 with...
The 3120 JBOD expansion units can be deployed with Dot Hill's 2.5-inch RAID storage arrays:
  3720 8Gb Fibre Channel Storage Array
  3920 8Gb Fibre Channel & 1Gb iSCSI Storage Array

Use the 3130 with...
The 3120 JBOD expansion units can be deployed with Dot Hill's 3.5-inch RAID storage arrays:
  3730 8Gb Fibre Channel Storage Array
  3930 8Gb Fibre Channel & 1Gb iSCSI Storage Array

■ 3120 24-DRIVE ARRAY FEATURES

Drive size	2.5-inch drives
Drives per array	up to 24
Max capacity per chassis	12TB

■ PHYSICAL

Depth (excluding cables)	21.3 Inches / 54.0 cm
Height	3.5 Inches / 8.9 cm
Width	17.6 Inches / 44.7cm
Chassis weight	44 lbs / 20kg
w/146GB drives	60 bs / 27.2kg

■ 3130 12-DRIVE ARRAY FEATURES

Drive size	3.5-inch drives
Drives per array	up to 12
Max capacity per chassis	24TB

■ PHYSICAL

Depth (excluding cables)	23.7 Inches / 60.2 cm
Height	3.5 Inches / 8.9 cm
Width	17.6 Inches / 44.7 cm
Chassis weight	44lbs. / 20kg
w/500GB drives	68lbs. / 30.84kg

3120/3130 JBOD specifications

■ GENERAL

Product Family	3000 Series
Product Type	JBOD
Chassis Configuration	2U
Disk Architecture	6Gb SAS
Data Management Services (DMS)	AssuredRemote™
	AssuredSnap™, AssuredCopy™

■ DRIVES

Drive Types	SAS, SATA, SSD

■ RAID

Levels Supported	0, 1, 3, 5, 6, 10 and 50
RAID Type	Hardware
Cache Memory	2GB per controller
Cache Backup	Battery-free protection with super capacitors
Virtual disks per System	64
Volumes per virtual disk	256
Volumes per System	256
Mirrored Cache	Yes - SimulCache™
Super Capacitor Cache Backup	Yes
Cache Backup to Flash	Yes - Non-volatile

■ MANAGEMENT

SAS connect to RAID

■ POWER REQUIREMENTS - AC INPUT

Input Power Requirements	100-240VAC 50/60Hz
Max Input Power	436W max maximum continuous
Heat Dissipation	1488 BTUs/hour

■ POWER REQUIREMENTS - DC INPUT

Voltage	-36 to -72VDC, -48/-60V nominal
Max Input Power	436W maximum continuous
Heat Dissipation	1488 BTU/hour

■ TEMPERATURE AND HUMIDITY RANGES

Operating Temperature	41°F to 104°F (5°C to 40°C)
Shipping Temperature	-40°F to 158°F (-40°C to 70°C)
	Note: Derate 2°C for every km, up to 3000 meters
Operating Humidity	10% to 90% RH @ 104°F (40°C), non-condensing
Non-Operating Humidity	Up to 93% RH @ 104°F (40°C) non-condensing

■ DECLARED ACOUSTIC NOISE LEVELS

Sound Power	LWAd=6, 75 B
Sound Pressure	LpAm - 55dB

■ SHOCK AND VIBRATION

Shock, Operational	10G's for 10 ms (3720)
	5G's for 10 ms (3730)
Shock, Non-Operational	15G 11ms, half sine
Vibration, Operational	5Hz to 500Hz, 0.21Grms flat spectrum
Vibration, Non-Operational	3-365-3Hz, 1.22 Grms, z-axis, 0.85 Grms, X&Y axis shaped spectrum

■ HIGH-AVAILABILITY FEATURES

Redundant Hot-Swap Controllers	Yes
Redundant Hot-Swap Disk, Fans, Power	Yes
Dual Power Cords	Yes
Hot Standby Spare	Yes
Automatic Failover	Yes
Multi-Path Support	Yes
Snapshot with AssuredSnap™	Yes
Volume Copy with AssuredCopy™	Yes
Remote Replication with AssuredRemote™	Yes

■ REGULATORY

Safety	UL 60950-1, 1st edition, 2007-10-31 (USA)
	CAN/CSA-C22.2 No.60950-1-03, 1st Edition, 2006-7 (Canada)
	EN 60950-1:2006 (European Union)
	EC 60950-1:2001 (International)
	EN 60950-1:2001 +A11:2004 (GS Mark,,Germany)
	CCC Mark (power supply only, China PRC)
Electromagnetic Compatibility	
Emissions	CFR 47 Part 15 Subpart B Class A (U.S.A.)
	ICES-003:2004 Class A (Canada)
	EN 55022:2006 +A1:2007 Class A (EU)
	EN 300 386 V1.4.1:2008 Class A (EU Telco)
	AS/NZS CISPR 22:2009 Class A (Australia, New Zealand)
	VCCI:2009-04 Class A (Japan)
	GOST R 51318.22-99 Class A (Russia)
	KN 22 Class A (S. Korea)
	CNS 13438:2006 Class A (Taiwan)
Harmonics	EN61000-3-2:2006 (EU)
Flicker	EN 61000-3-3:1995 +A1:2001+A2:2005 (EU)
Immunity	EN 55024:1998 +A1:2001+A2:2003 (EU)
	EN 300 386 V1.4.1:2008 (EUTelco)
	GOST R 51318.24-99 (Russia)
	KN 24 (S. Korea)
RoHS and WEEE	RoHS-6/6 Compliance, China RoHS, WEEE
Country Approvals	United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC) , Russia, Mexico, South Africa, Germany, South Korea, Taiwan

■ SUPPORT

Software Warranty	90 days
Standard Hardware Warranty	3 years
Environmental Monitoring	SNMP, CLI, RAIDar 2.0, SMTP, SMI-S Provider
Phone-home Capability	Yes
Remote Diagnostics	Yes
Non-disruptive Updates	Yes
Non-disruptive Volume Expansion	Yes for primary volumes and snapshot volumes and snapshots

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