

ADU Version 3.10.3.0 2017-05-17
Diagnostic Module Version 3.10.3.0 2017-05-17
Time Generated Thursday July 05, 2018 8:49:18AM

Device Summary:

Smart Array P440ar in Embedded Slot

Consolidated Error Report:

Report for Smart Array P440ar in Embedded Slot

Smart Array P440ar in Embedded Slot : Identify Controller

Configured Logical Drives	0 (0x00)
Configuration Signature	0x08525cca
RAM Firmware Revision	6.06
ROM Firmware Revision	6.06
Hardware Revision	0x01
Boot Block Revision	3.07
Drive Present Map	0x00000000
External Drive Map	0x00000000
Board ID	0x21c0103c
Swapped Cable Flags	0x00
Non Disk Map	0x00000000
Bad Host RAM Addr	0x00
CPU Revision	0x28
PDPI Revision	0x00
EPIC Revision	0x00

Supported Redundant Controller Modes 0x00

Current Redundant Controller Mode 0x00

Redundant Controller Status 0x00

Redundant Failure Reason 0x00

Unsupported NILE Busses 0x00

Host I2C Autorev 0x01

CPLD Revision 0x80

Fibre Chip Count 0 (0x00)

Daughterboard Type 0x00

More Swapped Cable Flags 0x00

License Key Status 0x08

Position	License Key Status	Status

3	License Keys Supported	True Informational
2	No Keys Stored	Informational

Access Module Status 0x07

ADG Support 0xc1

Features Supported 0xff 0xfc 0x00 0x00 0xfd 0x03 0x13 0x02 0x4f 0x00 0x07

ROM Inactive Revision 6.06

Active ROM Status 0x00

PPC to PCI Bridge Status 0x00

Redundant Server Info 0x00000000

Percent Write Cache 0% (0x00)

Cache Size In MiB 2 GiB (0x0800)

Cache Battery Count 1 (0x01)

Total Controller Memory Size 0x0800

More Controller Flags 0xf8

Position	Controller Flag	Status
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4	Multiple Parity Groups Supported	Informational
9	Ncq Supported	Informational
13	PHY-to-PHY map is supported	Informational
15	Sat Pass Through Read Supported	Informational
16	Sat Pass Through Write Supported	Informational
17	Multi Domain Supported	Informational
20	Fixed Fields Length Supported	Informational
22	Sense Expansion Ability Supported	Informational
25	Hba Mode Supported	Informational
27	Cache Config Flags Supported	Informational
28	Boot Volume Supported	Informational
29	Periodic Sampling Supported	Informational

Last Lockup 0x00

PCI Slot 0 (0x00)

Firmware Build Number 0x0000

Maximum Safe Full Stripe Size MiB 12 MiB (0x0000000c)

Total Structure Length 517 (0x00000205)

Vendor ID HP

Product ID P440ar

Extended Last Lockup 0x00000000

Maximum RAID01 Stripe Size 0xffff

Maximum RAID45 Stripe Size 0x0800

Maximum RAID6 Stripe Size 0x0800

Yet More Swapped Cable Flags 0x0000

Maximum Device Paths 0x04

Power Up NVRAM Flags 0x00

Offset To Zoned In Drive Map 0 (0x0000)

Fixed Structure Length 325 (0x00000145)

Firmware Compile Time Stamp Jun 16 2017 14:48:55

Even More Controller Flags 0x62c7d630

Position	Controller Flag	Status
16	Rapid Parity Initialization Supported	Informational
17	Io Bypass Function Supported	Informational
18	Roaming Spares Supported	Informational
22	Rsync Rollback Supported	Informational
23	Enhanced Rapid Parity Initialization Supported	Informational
29	Rapid Rebuild Supported	Informational
30	Fls Elevator Supported	Informational

Host Initialization Code 0x0220

Orca Image Size 0x0000

Option ROM Version empty

Option ROM Build 0x0000

Encryption Status 0x01000000

Position Controller Encryption Status Status

24	Creation Not Allowed	Informational
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Extra Controller Flags 0x00300f6c

Position Extra Controller Flags Status

2	Opo Supported	Informational
3	Clear Config Supported	Informational
11	Sanitize Supported	Informational

PCIE Generation 0x03

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PCIE Width          0x08
Current Controller Mode    Not Redundant (0x00)
Part Number          749796-001
FW Tag              empty
Simultaneous Spinup Count    0x00000000
Drive Spinup Delay      0x00000000
PCI Device ID         0x0000
PCI Vendor ID        0x0000
PCISS Device ID      0x0000
PCISS Vendor ID     0x0000
PCI Max Link Rate    0x00000000
PCI Max Link Width   0x00000000
Max Host Request     0x00000000
Min RAID01 Strip Size    0x0000
Min Parity Strip Size   0x0000
Family ID           empty

Extended Drive Present Map    0x0c 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

                                0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Position Device          Status
-----
2    Physical Drive (300 GB SAS HDD) 11:3:2 Informational
3    Physical Drive (300 GB SAS HDD) 11:3:1 Informational

Extended External Drive Map    All Zeroes (48 x [0x00])

Extended Non Disk Map        0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

                                0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x08

```

Position Status

379 Informational

Smart Array P440ar in Embedded Slot : Cache Config Status

Cache Disabled Map 0x00000000
Read Cache Size 0 (0x0000)
Write Cache Size 0 (0x0000)
Disable Flag Disabled (0x01)
Offset To Extended Cache Disabled Map 0 (0x0000)
Offset To Extended Cache Failure Map 0 (0x0000)
Offset To Extended Read Cache Disabled Map 0 (0x0000)
Cache Configuration Flags 0x00
Total Structure Length 289 (0x00000121)
Maximum Logical Devices Supported 64 (0x0040)
Offset To Extended Write Cache Disabled Map 0 (0x0000)
Fixed Structure Length 265 (0x00000109)
Cache Flags 0x00010000

Position Cache Flag Status

16 Flash Backed Cache Module Attached Informational

Cache Disable Code 0x0000
Total Cache Memory Size 1 GiB (0x0718)
Battery Count 1 (0x0001)
Battery Status 0x0001
Parity Read Errors 0 (0x0000)

Parity Write Errors	0 (0x0000)
Error Log	All Zeroes (160 x [0x00])
Failed Batteries	0 (0x0000)
Board Present	0x01
Cache Failure Map	0x00000000
Max Error Log Entries	12 (0x0c)
NVRAM Load Status	0x00
Memory Size Shift Factor	10 (0x0a)
Non Battery Backed Memory Size	0 (0x0000)
Memory State	0x00
Cache Auto Rev	0x04
Total Controller Memory Size	2 GiB (0x0800)
Percent Read Cache	0% (0x00)
Percent Write Cache	0% (0x00)
Default Percent Read Cache	10% (0x0a)
Default Percent Write Cache	90% (0x5a)
Installed Batteries	0x0001
Cache Support Flags	0x1c
Reserved2	0x00
Backup Power Status	Uninitialized (0x00)
Total Number Of Backups	0 (0x0000)
Last Backup Time	0 millisecond(s) (0x00000000)
Last Restore Time	0 millisecond(s) (0x00000000)
Green Backup Processor Version Major	0x00
Green Backup Processor Version Minor	0x00
Backup Hardware Error	0x0000
Green Backup Flags	0x00
Detailed Flashlight Hardware Status	0x11 0x01 0x20 0x00 0x01 0x00 0x00 0x00
Required Backup Power Type	0x03

Cache Backup Power Needed 0x0fa0
 Cache Backup Time Needed 0x49f00000
 Extended Cache Disabled Map 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Smart Array P440ar in Embedded Slot : Controller Parameters

LED Flag 0x00
 Command List Verification 0x00
 Backed Out Write Drives 0 (0x00)
 Parity Stripes 0x0000
 Controller Configuration Flags 0x00

Position	Controller Configuration Flag	Status
2	Inconsistency Repair Policy Disabled	Informational
3	Degraded Performance Optimization Disabled	Informational

Queue Depth 0xffff
 Elevator Trend 0x0032
 Elevator State Enabled (0x00)
 Force Scan Complete 0x00
 Forced Transfer Mode Automatic Detection (0x00)
 Forced Transfer Width Automatic Detection (0x00)
 Rebuild Priority Rapid High (0x00)
 Expand Priority Medium (0x00)
 Host Sdb ASIC Fix 0x00
 PDPI Burst Disabled 0x00
 Software Name empty
 Hardware Name empty
 Bridge Revision 0x00

Snapshot Priority 0x00
OS Specific 0x00000000
POST Prompt Timeout 0x00
Automatic Drive Slamming 0x00

Position Automatic Drive Slamming Status

0 Disabled Informational

Device Path Selection Method Automatic (0x00)

NVRAM Flags 0x00

Cache NVRAM Flags 0x00

Drive Configuration Flags 0x00

Position Drive Configuration Flag Status

0 Drive Write Cache Disabled Informational
2 Skip Never Accessed Regions During Expansion Enabled Informational
3 Skip Never Accessed Regions During Rebuild Enabled Informational

Over Temperature Warning 0x00

Over Temperature Shutdown 0x00

Over Temperature Condition Cancelled 0x00

Max Coalesce Commands 1 (0x01)

Max Coalesce Delay 0 microseconds (0x00000000)

ORCA Password empty

Access ID empty

Primary Boot LUN All Zeroes (16 x [0x00])

Secondary Boot LUN All Zeroes (16 x [0x00])

Total Structure Length 258 (0x00000102)

RAM Drive Number 0x0000

RAM Drive Size In Mi B	0x0000
More Config Flags	0x00000000
More NVRAM Flags	0x00000000
Elevator Latency Setting	0x0000
SAS Request Fairness Queueing Mode	0x00
Connector Mode	Unknown (All Zeroes (16 x [0x00]))
Num OS Bootable Drives	0x00
Big Block Cache Line Bypass Limit	1040 KiB (0x00000000)
RTC Century	0x00000000
RTC Year	0x00000000
RTC Month	0x00000000
RTC Day	0x00000000
RTC Hour	0x00000000
RTC Minute	0x00000000
RTC Second	0x00000000
Dcache Error Handling	0x00
Icache Error Handling	0x00
Write Verify Status	0x00
Connector Max Phy Rate Limit	All Zeroes (16 x [0x00])

Smart Array P440ar in Embedded Slot : Maintenance Operation

Duration	0 second(s) (0x00000000)
Elapsed	0 second(s) (0x00000000)
Maintenance Flags	All Zeroes (256 x [0x00])
Offset To Extended Maintenance Flags	276 (0x0114)
Maximum Physical Devices Supported	384 (0x0180)
Total Structure Length	660 (0x00000294)
Fixed Structure Length	276 (0x00000114)

Extended Maintenance Flags All Zeroes (384 x [0x00])

Smart Array P440ar in Embedded Slot : MNP Status

Current Drive 0x0000
Timer Remaining 0 minute(s) (0x0000)
MNP Delay 0 minute(s) (0x0000)

Smart Array P440ar in Embedded Slot : SubSystem Parameters

Controller Slot Number 0 (0x00)
Chassis Serial Number CZJ806096Z
Port Name 5001438042e202c0 (0x50 0x01 0x43 0x80 0x42 0xe2 0x02 0xc0)
Controller Serial Number PDNLH0BRHA61X5
Cache Serial Number PDNLH0BRHA61X5
Linked Port Name 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Linked Controller Serial Number empty
Linked Cache Serial Number empty
System Board Serial Number empty
Power Backplane Serial Number empty
SCSI Drive Backplane Serial Number empty
Fan Module Serial Number empty
Power Supply 0 Serial Number empty
Power Supply 1 Serial Number empty
Power Bay Fan Module Serial Number empty
Fibre Daughter Board Serial Number empty
Node Name empty
Drive Backplane 1 Serial Number empty
Fan Module 1 Serial Number empty

Internal Port Count 2 (0x02)
External Port Count 0 (0x00)
Internal Port Info Index Controller Phy Map Physical Port

0 0x000000000000000f 1I
1 0x00000000000000f0 2I
2 0x0000000000000000 empty
3 0x0000000000000000 empty
4 0x0000000000000000 empty
5 0x0000000000000000 empty
6 0x0000000000000000 empty
7 0x0000000000000000 empty

External Port Info Index Controller Phy Map Physical Port

0 0x0000000000000000 empty
1 0x0000000000000000 empty
2 0x0000000000000000 empty
3 0x0000000000000000 empty
4 0x0000000000000000 empty
5 0x0000000000000000 empty
6 0x0000000000000000 empty
7 0x0000000000000000 empty

Product ID empty
Total Structure Length 1584 (0x00000630)
Additional Internal Port Info Index SAS Address
Connection Mode Conn Mode Support Conn Phy Rate Limit

Connection Number

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-----
RAID (0x00)  0x00  0  5001438042e202c0 (0x50 0x01 0x43 0x80 0x42 0xe2 0x02 0xc0) 0x00
                                0x00
RAID (0x00)  0x00  1  5001438042e202c4 (0x50 0x01 0x43 0x80 0x42 0xe2 0x02 0xc4) 0x00
                                0x00
RAID (0x00)  0x00  2  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  3  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  4  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  5  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  6  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  7  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00

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Additional External Port Info	Index SAS Address	Connection Number
Connection Mode	Conn Mode Support	Conn Phy Rate Limit

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-----
RAID (0x00)  0x00  0  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  1  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  2  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  3  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  4  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00  5  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00

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RAID (0x00)  0x00      6  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00
RAID (0x00)  0x00      7  0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00) 0x00
                                0x00

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Controller Temperature      0x2a
Cache Module Temperature    0x23
Supercap Temperature        0x00
HBA Firmware Version        All Zeroes (16 x [0x00])
HBA Mode Option ROM Version All Zeroes (16 x [0x00])
Cache Module Data Width     0x0040
Cache Module Xfer Rate      0x074a

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Cable Info          Cable State Vendor Part Number  Vendor Revision Vendor Serial Number
Cable Length

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-----
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000
0x00000000 All Zeroes (16 x [0x00]) 0x00 0x00  All Zeroes (16 x [0x00]) 0x0000

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Current Controller Powerm W      0x00002412
Connector Name Internal          Connector Name

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-----
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

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0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Connector Name External Connector Name

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Driver Version empty

Smart Array P440ar in Embedded Slot : Surface Status

Current Drive 0x0000
Current Head All Zeroes (32 x [0x00])
Current Cylinder All Zeroes (32 x [0x0000])
Timer Remaining 0 second(s) (0x0000)
Surface Delay 0 second(s) (0x0000)
Current Block All Zeroes (32 x [0x00000000])
Surface Analysis Status 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Inconsistent Block All Zeroes (8 x [0x00000000])

Surface Analysis Pass Time All Zeroes (32 x [0x00000000])
 Surface Analysis Pass Count All Zeroes (32 x [0x00000000])
 Controller Resets All Zeroes (32 x [0x0000])
 Blocks Reassigned All Zeroes (32 x [0x00000000])
 Big Current Block All Zeroes (128 x [0x00000000])
 Big Surface Analysis Status All Zeroes (32 x [0x00])
 Big Inconsistent Block All Zeroes (32 x [0x00000000])
 Current Volume 0xffff
 Initialization Percentage Complete 0% (0x00)
 Offset To Extended Surface Analysis Status 0 (0x00000000)
 Offset To Extended Surface Analysis Pass Time 0 (0x00000000)
 Offset To Extended Surface Analysis Pass Count 0 (0x00000000)
 Offset To Extended Controller Resets 0 (0x00000000)
 Offset To Extended Blocks Reassigned 0 (0x00000000)
 Offset To Extended Inconsistent Block 0 (0x00000000)
 Offset To Extended Current Block 0 (0x00000000)
 Total Structure Length 7912 (0x00001ee8)
 Maximum Logical Devices Supported 64 (0x0040)
 Maximum Physical Devices Supported 384 (0x0180)
 Fixed Structure Length 1448 (0x000005a8)
 Offset To Volume Parity Inconsistencies Repaired 0 (0x00000000)
 Offset To Drive Parity Inconsistencies Repaired 0 (0x00000000)
 Offset To Extended Initialization Percent Complete 0 (0x00000000)
 Max Parallel Scan Limit 0x00
 Current Parallel Scan Limit 0x00
 Extended Surface Analysis Status All Zeroes (64 x [0x0000])
 Extended Surface Analysis Pass Time All Zeroes (64 x [0x00000000])
 Extended Surface Analysis Pass Count All Zeroes (64 x [0x00000000])
 Extended Controller Resets All Zeroes (64 x [0x0000])


```

0x0000000000000000 0x0000000000000000 0x0000000000000000
0x0000000000000000 0x0000000000000000 0x0000000000000000

0x0000000000000000 0x0000000000000000 0x0000000000000000
0x0000000000000000 0x0000000000000000 0x0000000000000000

0x0000000000000000 0x0000000000000000 0x0000000000000000
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0x0000000000000000 0x0000000000000000 0x0000000000000000

0x0000000000000000 0x0000000000000000 0x0000000000000000
0x0000000000000000 0x0000000000000000 0x0000000000000000

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Smart Array P440ar in Embedded Slot : Sense Expansion Ability

Support Flags	0x0000001f	
	Position Support Flag	Status

- 0 Volume Expansion Supported Informational
- 1 Stripe Size Migration Supported Informational
- 2 Raid Level Migration Supported Informational
- 3 Logical Drive Extension Supported Informational
- 4 Expansion Memory Size Field Applicable Informational

Expansion Memory Size 128 MiB (0x00020000)

Transformation Capability Status 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01

Offset To Extended Transformation Capability Status 52 (0x0034)

Maximum Logical Devices Supported 64 (0x0040)

Total Structure Length 116 (0x00000074)

Fixed Structure Length 52 (0x00000034)

Extended Transformation Capability Status 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01 0x01
 0x01 0x01 0x01 0x01

Smart Array P440ar in Embedded Slot : VPD Page 80 - Serial Number

Product Serial Number PDNLH0BRHA61X5

Smart Array P440ar in Embedded Slot : VPD Page 83 - Array Information

Array Code Set Identifier Type Association Identifier Length Identifier


```

0x02 0x00 0x00 0x10 0x50 0x44 0x4e 0x4c 0x48 0x30 0x42
0x52 0x48 0x41 0x36 0x31 0x58 0x35 0x00 0x00
0x01 0x00 0x00 0x04 0x00 0x00 0x00 0x00

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Smart Array P440ar in Embedded Slot : Controller NVRAM

```

GPIO Flag          0x00
Board ID           0x21c0103c
Global Configuration Signature 0x00000001
Configuration Signature 1 0x00000000 0x00000000 0x00000000 0x00000004 0x00000003
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000
Error Log          Trap Address High Or Post Results Lockup Reason Or Post Error RIS Updates
Or Post Error Detail Firmware Version Trap Address Low

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-----
-----
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000
0x0000          0x0000          0x0000          0x00000000          0x0000
0x0000

```

0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0xf800
0x5cc7	0x0000	0x5cca	0x5cc40852	0x0052
0x0000	0x0452	0x5cca	0x00000852	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000
0x0000	0x0000	0x0000	0x00000000	0x0000

Memory State	0x00
Bridge Revision	0x00
NVRAM Flags	0x00
Current Host Serial Number	empty
Incarnation Number	0x0000
Previous Host Serial Number 1	empty
Previous Host Serial Number 2	empty
Previous Host Serial Number 3	empty
Access ID	empty
Last Lockup	0x00
PCI Slot	0 (0x00)

```

SAS Phy Settings      All Zeroes (8 x [0x00000000])
Phy Settings Valid    0x00
Phy Enable            0x00
CLP Flags             0x00
WWID Number           0000000000000000 (0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00)
Configuration Signature 2  0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000004
0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000
0x384a5a43 0x39303630

```

```

License Keys          Key  RTC Install Date

```

```

-----
6Z  0x3436504e
90  0x791dc020
empty 0x00000000
empty 0x00000000
empty 0x00000000
empty 0x00000000
empty 0x00000000
empty 0x00000000

```

```

Checksum 1           0x0000

```

```

Checksum 2           0x00c2

```

```

NVRAM Raw Hex Dump   00 00 3c 10 c0 21 01 00 00 00 00 00 00 00 00 00 00 00 00 00
04 00 00 00 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```


Record	Feature Name	License Key	Key TLE	Hardware Serial Number
Hardware Series Key	Entry Date	Firmware Status	Key Status	

0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty
0x00000000	0x00	empty 0x0000	empty	All Zeroes (36 x [0x00])	empty	empty

Smart Array P440ar in Embedded Slot : Get Power Mode

Pending Power Mode 0x00000004

Position Pending power mode Status

2 Max Performance Informational

Current Power Mode 0x00000004

Position Current power mode Status

2 Max Performance Informational

Warning Map 0x00000000
Survival Mode Thresholds 0x00000000
Selected Survival Mode 0x00

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Sense Bus Parameters

Peripheral Type 0x00
RMB 0x00
Versions 0x00
Misc 0x00
Additional Length 0x00
Support Bits 0x00
Vendor ID empty
Product ID empty
Product Revision empty
Inquiry Valid 0x00
Installed Drive Map 0x00000000
Hot Plug Count All Zeroes (32 x [0x0000])
Physical Box 3 (0x03)
Alarm Status 0x00
Temp Status 0x00
Valid Alarm Bits 0x00
Alarm Count 0 (0x0000)
Specific Alarm Counts All Zeroes (8 x [0x0000])
Connection Flags 0x0002

Position Connection Flag Status

1 Internal Connector Is Used Informational

SCSI Device Revision 0x01

Fan Status 0x00

More Inquiry Data All Zeroes (64 x [0x00])

SCSI Device Type 0x3239103c

Bus Map 0x00000000

Interrupt Count 0 (0x00000000)

Ultra Bus Faults 0x00000000

SCSI Initiator ID 0 (0x00)

SCSI Target ID 0 (0x00)

Physical Port 11

Big Installed Drive Map 0x0c 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00

Big Bus Map 0x0f 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00

Big Box Map 0x0f 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00

Installed Box Map 0x00

More Connection Flags 0x00

Position Connection Flag Status

2 Using Id Numbering Informational

Bay Count 4 (0x04)

Expander Count 0 (0x00)

Chassis Serial Number empty

Fast Bus Faults 0x00000000

Ultra 2 Bus Faults 0x00000000

Ultra 3 Bus Faults 0x00000000

Ultra 320 Bus Faults	0x00000000
SEP Count	1 (0x01)
SEP Device Types	0x04 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
SEP Device Numbers	0x017c 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
Expander Device Numbers	All Zeroes (16 x [0x0000])
Offset To Extended Installed Drive Map	1210 (0x04ba)
Offset To Extended Bus Map	1258 (0x04ea)
Offset To Extended Box Map	1306 (0x051a)
Total Structure Length	1354 (0x0000054a)
Offset To Element Type Modules	0 (0x0000)
Maximum Physical Devices Supported	384 (0x0180)
IO Module Present Map	0x01
Active IO Module Number	0x00
IO Module Failure Map	0x00
Redundant Path Present Map	0x00
Redundant Path Failure Map	0x00
Active Path Number	0x00
Multi Path Port	All Zeroes (16 x [0x00])
Multi Path Box 1	0x00
Multi Path Box 2	0x00
Multi Path Box 3	0x00
Multi Path Box 4	0x00
Multi Path Box 5	0x00
Multi Path Box 6	0x00
Multi Path Box 7	0x00
Multi Path Box 8	0x00
Zoned In Enclosure Bay Map	All Zeroes (32 x [0x00])

Position Zoned In Enclosure Bay Status

0	False	Informational
1	False	Informational
2	False	Informational
3	False	Informational
4	False	Informational
5	False	Informational
6	False	Informational
7	False	Informational
8	False	Informational
9	False	Informational
10	False	Informational
11	False	Informational
12	False	Informational
13	False	Informational
14	False	Informational
15	False	Informational
16	False	Informational
17	False	Informational
18	False	Informational
19	False	Informational
20	False	Informational
21	False	Informational
22	False	Informational
23	False	Informational
24	False	Informational
25	False	Informational
26	False	Informational

27	False	Informational
28	False	Informational
29	False	Informational
30	False	Informational
31	False	Informational
32	False	Informational
33	False	Informational
34	False	Informational
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36	False	Informational
37	False	Informational
38	False	Informational
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122	False	Informational
123	False	Informational
124	False	Informational
125	False	Informational
126	False	Informational
127	False	Informational

Fixed Structure Length 1210 (0x000004ba)

Big Hot Plug Count All Zeroes (256 x [0x0000])

Switch Name All Zeroes (10 x [0x00])

Switch Port 0x0000

Alternate Paths Switch Name All Zeroes (40 x [0x00])

Alternate Paths Switch Port 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

IO Module Error Map 0x00000000

Expander Error Info All Zeroes (16 x [0x0000000000000000])

Backplane Info Application FW Version Bootloader FW Version Type PIC In Bootloader

Product String

0x00 0x00 0x00 0x00 empty

Logical Block Size 0x0200
Total Blocks 0x22ecb25c
Reserved Blocks 0x00010000
Drive Model HP EG000300JWBHR
Drive Serial Number 2730A2X7FXFD1705
Drive Firmware Revision HPD2
SCSI Inquiry Bits 0x02
Compaq Drive Stamped Stamped For Monitoring (0x01)
Last Failure Reason No Failure (0x00)
Device Flags 0x01

Position	Device Flag	Status
----------	-------------	--------

0	Drive Present And Operational Informational	
---	---	--

More Device Flags 0x05

Position	Device Flag	Status
----------	-------------	--------

0	SMART Predictive Failure Supported	Informational
2	SMART Predictive Failure Is Enabled	Informational
4	Device Attached To Internal Connector	Informational

SCSI Lun 0x00

Yet More Device Flags 0x80

Position	Device Flag	Status
----------	-------------	--------

7	Drive Write Cache Setting Is Changeable	Informational
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Even More Device Flags 0x10

Position	Device Flag	Status
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0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
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PHY To Drive Bay Number 0x02 0x02 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
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PHY To Attached Device Index 0xfffe 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
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0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000

Box Index 0 (0x00)

MSA Support 0x00

Extra Device Flags 0x8000

Negotiated Logical Link Rate 0x0b 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

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0x00

Phy To Phy Map	All Zeroes (256 x [0x00])
Redundant Path Present Map	0x01
Redundant Path Failure Map	0x00
Active Path Number	0x00
Multi Path Port	0x31 0x49 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Multi Path Box	0x03 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Multi LUN Device LUN Count	0x00
Minimum Good Firmware Revision	empty
Vendor Unique Inquiry Bytes	0x32 0x37 0x33 0x30 0x41 0x32 0x58 0x37 0x46 0x58 0x46 0x44 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Current Temperature	0x1e
Temperature Threshold	0x3c

Maximum Temperature 0x20
 Logical Blocks Per Physical Block 0x00
 Current Q Depth Limit 0x007c
 Switch Name All Zeroes (10 x [0x00])
 Switch Port 0x0000
 Alternate Paths Switch Name All Zeroes (40 x [0x00])
 Alternate Paths Switch Port 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
 Power On Hours 0x0007
 Percent Endurance Used 0x0000
 Drive Authentication 0x80
 Smart Carrier Authentication 0x01
 Smart Carrier Application Version 0x0b
 Smart Carrier Bootloader Version 0x06
 Sanitize Erase Support 0x31
 Encryption Flags 0x00
 Encryption Key Name
 HP_HDD_SAS____300GB_10K_EG000300JWBHR____2730A2X7FXFD1705____
 Misc Drive Flags 0x00000038

Position	Misc Drive Flags	Status
3	Supports Write Buffer Mode D	Informational
4	Supports Write Buffer Mode E	Informational
5	Supports Write Buffer Mode 7	Informational

 DEK Index 0x0000
 Drive Encryption Flags 0x0000
 Max Overwrite Time 0x00bd
 Max Block Erase Time 0x0000
 Max Crypto Erase Time 0x0000

Connector Mode	RAID (0x00)
Connector Info	0x00 0x00 0x00 0x00
Long Connector Name	All Zeroes (64 x [0x00])
Device Unique ID	All Zeroes (16 x [0x00])
Max Link Rate	All Zeroes (256 x [0x00])
Negotiated Physical Link Rate	All Zeroes (256 x [0x00])
Long Box Connector Name	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Change Phy Rate	0x00

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:2 : Monitor and Performance Statistics (Since Factory)

Serial Number	empty
Firmware Revision	empty
Product Revision	empty
Reference Time	0x0000000a
Sectors Read	0x000000000087c58f
Read Errors Hard	0x00000000
Read Errors Retry Recovered	0x00000000
Read Errors ECC Corrected	0x0000000000000000
Sectors Written	0x0000000000000000
Write Errors Hard	0x00000000
Write Errors Retry Recovered	0x00000000
Seek Count	0xffffffffffffff
Seek Errors	0xffffffffffffff
Spin Cycles	0x00000000
Spin Up Time	0x0000
Performance Test 1	0x0000
Performance Test 2	0xffff

Performance Test 3	0xffff
Performance Test 4	0xffff
Reallocation Sectors	0xffffffff
Reallocated Sectors	0xffffffff
DRQ Time Outs	0xffff
Other Time Outs	0x0000
Drive Rebuild Count	0 (0x0000)
Spin Retries	65535 (0xffff)
Recovers Failed Read	0x0000
Recovers Failed Write	0x0000
Format Errors	0x0000
Self Test Failures	0xffff
Not Ready Failures	0x00000000
Remap Abort Failures	0xffffffff
IRQ Deglitch Count	4294967295 (0xffffffff)
Bus Faults	0x00000000
Hot Plug Count	0 (0x00000000)
Track Rewrite Errors	0xffff
Write Errors After Remap	0x0000
Background Firmware Revision	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Media Failures	0x0000
Hardware Errors	0x0000
Aborted Command Failures	0x0000
Spin Up Failures	0x0000
Bad Target Count	0 (0x0000)
Predictive Failure Errors	0x00000000

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 11 : Box 3 : Physical Drive (300 GB SAS HDD) 11:3:2 : Monitor and Performance Statistics (Since Reset)

Serial Number	empty
Firmware Revision	empty
Product Revision	empty
Reference Time	0x0000000a
Sectors Read	0x000000000087c58f
Read Errors Hard	0x00000000
Read Errors Retry Recovered	0x00000000
Read Errors ECC Corrected	0x0000000000000000
Sectors Written	0x0000000000000000
Write Errors Hard	0x00000000
Write Errors Retry Recovered	0x00000000
Seek Count	0xffffffffffffff
Seek Errors	0xffffffffffffff
Spin Cycles	0x00000000
Spin Up Time	0x0000
Performance Test 1	0x0000
Performance Test 2	0xffff
Performance Test 3	0xffff
Performance Test 4	0xffff
Reallocation Sectors	0xffffffff
Reallocated Sectors	0xffffffff
DRQ Time Outs	0xffff
Other Time Outs	0x0000
Drive Rebuild Count	0 (0x0000)
Spin Retries	65535 (0xffff)
Recovers Failed Read	0x0000
Recovers Failed Write	0x0000
Format Errors	0x0000

Self Test Failures	0xffff
Not Ready Failures	0x00000000
Remap Abort Failures	0xffffffff
IRQ Deglitch Count	4294967295 (0xffffffff)
Bus Faults	0x00000000
Hot Plug Count	0 (0x00000000)
Track Rewrite Errors	0xffff
Write Errors After Remap	0x0000
Background Firmware Revision	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Media Failures	0x0000
Hardware Errors	0x0000
Aborted Command Failures	0x0000
Spin Up Failures	0x0000
Bad Target Count	0 (0x0000)
Predictive Failure Errors	0x00000000

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:2 : Serial SCSI Physical Drive Error Log

Entry Size	20 (0x14)
Entry Count	64 (0x0040)
Next Entry Offset	0x00
Errors Logged	0 (0x00000000)
Physical Drive Error Log Entries	
Reference Time	0x0000000a

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:2 : Mode Sense 10

Header 0x00 0xe6 0x00 0x10 0x00 0x00 0x00 0x08 0x22 0xec 0xb2 0x5c 0x00 0x00
0x02 0x00

Mode Page Page Number Page Data

0x01	0x81 0x0a 0xc4 0x3f 0xff 0x00 0x00 0x00 0x3f 0x00 0x1b 0x58
0x02	0x82 0x0e 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00	
0x03	0x83 0x16 0x00 0x6e 0x00 0x00 0x00 0x00 0x00 0x14 0x0a 0xb8 0x02
0x00 0x00 0x01 0x02 0x73 0x00 0xa8 0x40 0x00 0x00 0x00	
0x04	0x84 0x16 0x01 0xa1 0x0f 0x02 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x29 0x04 0x00 0x00	
0x07	0x87 0x0a 0x04 0x3f 0xff 0x00 0x00 0x00 0x00 0x00 0x1b 0x58
0x08	0x88 0x12 0x10 0x00 0xff 0xff 0x00 0x00 0x00 0x00 0xff 0xff 0x80 0x08
0x00 0x00 0x00 0x00 0x00 0x00	
0x09	0x89 0x0e 0x0c 0x20 0x00 0x00 0x00 0x0b 0x00 0x00 0x00 0x00 0x00
0x0c 0xc2 0x00	
0x0a	0x8a 0x0a 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x08 0x92
0x18	0x98 0x06 0x06 0x00 0x00 0x00 0x00 0x00
0x19	0x99 0x0e 0x36 0x00 0x07 0xd0 0x27 0x10 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00	
0x1a	0x9a 0x26 0x80 0x02 0x00 0x00 0x00 0x14 0xff 0xff 0xff 0xff 0xff 0xff
0xff 0xff 0xff 0xff 0xff 0xff 0xff 0xff 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0xa8	
0x1c	0x9c 0x0a 0x11 0x04 0x00 0x00 0x0b 0xb8 0x00 0x00 0x00 0x02
0x21	0xa1 0x02 0x0f 0x00

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:2 : VPD Page 80 - Serial Number

Product Serial Number 2730A2X7FXFD1705

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:2 : VPD Page 83 - Array Information

Array	Code Set	Identifier	Type	Association	Identifier Length	Identifier
0x01	0x01	0x03	0x00	0x08	0x50	0x00 0x03 0x97 0x98 0x08 0xb9
0x02	0x01	0x03	0x01	0x08	0x50	0x00 0x03 0x97 0x98 0x08 0xb9
	0x01	0x04	0x01	0x04	0x00	0x00 0x00 0x00 0x01
0x00	0x01	0x03	0x02	0x08	0x50	0x00 0x03 0x97 0x98 0x08 0xb9
	0x03	0x08	0x02	0x18	0x6e	0x61 0x61 0x2e 0x35 0x30 0x30 0x30 0x30 0x33 0x39 0x37 0x39 0x38 0x30 0x38 0x42 0x39 0x30 0x30 0x00 0x00 0x00 0x00

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:1 : Physical Drive Status

SCSI Bus	0 (0x00)
SCSIID	3 (0x03)
Logical Block Size	0x0200
Total Blocks	0x22ecb25c
Reserved Blocks	0x00010000
Drive Model	HP EG000300JWBHR
Drive Serial Number	27N0A0HJFXFD1708
Drive Firmware Revision	HPD2
SCSI Inquiry Bits	0x02
Compaq Drive Stamped	Stamped For Monitoring (0x01)
Last Failure Reason	No Failure (0x00)

Device Flags 0x01

Position	Device Flag	Status

0	Drive Present And Operational	Informational

More Device Flags 0x05

Position	Device Flag	Status

0	SMART Predictive Failure Supported	Informational
2	SMART Predictive Failure Is Enabled	Informational
4	Device Attached To Internal Connector	Informational

SCSI Lun 0x00

Yet More Device Flags 0x80

Position	Device Flag	Status

7	Drive Write Cache Setting Is Changeable	Informational

Even More Device Flags 0x10

Position	Device Flag	Status

4	PHY To PHY Map Is Supported	Informational

Spi Speed Rules 0x00000000

Physical Port 11

Physical Box 3 (0x03)

Physical Bay 1 (0x01)

RPM 10000 RPM (0x00002710)

Device Type SAS (0x02)

0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
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0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000

0x0000

Box Index 0 (0x00)

MSA Support 0x00

Extra Device Flags 0x8000

Negotiated Logical Link Rate 0x0b 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

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0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00

Phy To Phy Map All Zeroes (256 x [0x00])

Redundant Path Present Map 0x01

Redundant Path Failure Map 0x00

Active Path Number 0x00

Multi Path Port 0x31 0x49 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00

Multi Path Box 0x03 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Multi LUN Device LUN Count 0x00

Minimum Good Firmware Revision empty

Vendor Unique Inquiry Bytes 0x32 0x37 0x4e 0x30 0x41 0x30 0x48 0x4a 0x46 0x58 0x46 0x44
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Current Temperature 0x1e

Temperature Threshold 0x3c

Maximum Temperature 0x1e

Logical Blocks Per Physical Block 0x00

Current Q Depth Limit 0x007c

Switch Name All Zeroes (10 x [0x00])

Switch Port 0x0000

Alternate Paths Switch Name All Zeroes (40 x [0x00])

Alternate Paths Switch Port 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Power On Hours 0x0008

Percent Endurance Used 0x0000

Drive Authentication 0x80

Smart Carrier Authentication 0x01
 Smart Carrier Application Version 0x0b
 Smart Carrier Bootloader Version 0x06
 Sanitize Erase Support 0x31
 Encryption Flags 0x00
 Encryption Key Name
 HP_HDD_SAS____300GB_10K_EG000300JWBHR____27N0A0HJFXFD1708____

Misc Drive Flags 0x00000038

Position	Misc Drive Flags	Status
----------	------------------	--------

- | | | |
|---|------------------------------|---------------|
| 3 | Supports Write Buffer Mode D | Informational |
| 4 | Supports Write Buffer Mode E | Informational |
| 5 | Supports Write Buffer Mode 7 | Informational |

DEK Index 0x0000

Drive Encryption Flags 0x0000

Max Overwrite Time 0x00bd

Max Block Erase Time 0x0000

Max Crypto Erase Time 0x0000

Connector Mode RAID (0x00)

Connector Info 0x00 0x00 0x00 0x00

Long Connector Name All Zeroes (64 x [0x00])

Device Unique ID All Zeroes (16 x [0x00])

Max Link Rate All Zeroes (256 x [0x00])

Negotiated Physical Link Rate All Zeroes (256 x [0x00])

Long Box Connector Name 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Change Phy Rate 0x00

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 11 : Box 3 : Physical Drive (300 GB SAS HDD) 11:3:1 : Monitor and Performance Statistics (Since Factory)

Serial Number	empty
Firmware Revision	empty
Product Revision	empty
Reference Time	0x0000000a
Sectors Read	0x0000000000864d8f
Read Errors Hard	0x00000000
Read Errors Retry Recovered	0x00000000
Read Errors ECC Corrected	0x0000000000000000
Sectors Written	0x0000000000000000
Write Errors Hard	0x00000000
Write Errors Retry Recovered	0x00000000
Seek Count	0xffffffffffffff
Seek Errors	0xffffffffffffff
Spin Cycles	0x00000000
Spin Up Time	0x0000
Performance Test 1	0x0000
Performance Test 2	0xffff
Performance Test 3	0xffff
Performance Test 4	0xffff
Reallocation Sectors	0xffffffff
Reallocated Sectors	0xffffffff
DRQ Time Outs	0xffff
Other Time Outs	0x0000
Drive Rebuild Count	0 (0x0000)
Spin Retries	65535 (0xffff)
Recovers Failed Read	0x0000

Recovers Failed Write	0x0000
Format Errors	0x0000
Self Test Failures	0xffff
Not Ready Failures	0x00000000
Remap Abort Failures	0xffffffff
IRQ Deglitch Count	4294967295 (0xffffffff)
Bus Faults	0x00000000
Hot Plug Count	0 (0x00000000)
Track Rewrite Errors	0xffff
Write Errors After Remap	0x0000
Background Firmware Revision	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Media Failures	0x0000
Hardware Errors	0x0000
Aborted Command Failures	0x0000
Spin Up Failures	0x0000
Bad Target Count	0 (0x0000)
Predictive Failure Errors	0x00000000

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:1 : Monitor and Performance Statistics (Since Reset)

Serial Number	empty
Firmware Revision	empty
Product Revision	empty
Reference Time	0x0000000a
Sectors Read	0x0000000000864d8f
Read Errors Hard	0x00000000
Read Errors Retry Recovered	0x00000000
Read Errors ECC Corrected	0x0000000000000000

Sectors Written	0x0000000000000000
Write Errors Hard	0x00000000
Write Errors Retry Recovered	0x00000000
Seek Count	0xffffffffffffff
Seek Errors	0xffffffffffffff
Spin Cycles	0x00000000
Spin Up Time	0x0000
Performance Test 1	0x0000
Performance Test 2	0xffff
Performance Test 3	0xffff
Performance Test 4	0xffff
Reallocation Sectors	0xffffffff
Reallocated Sectors	0xffffffff
DRQ Time Outs	0xffff
Other Time Outs	0x0000
Drive Rebuild Count	0 (0x0000)
Spin Retries	65535 (0xffff)
Recovers Failed Read	0x0000
Recovers Failed Write	0x0000
Format Errors	0x0000
Self Test Failures	0xffff
Not Ready Failures	0x00000000
Remap Abort Failures	0xffffffff
IRQ Deglitch Count	4294967295 (0xffffffff)
Bus Faults	0x00000000
Hot Plug Count	0 (0x00000000)
Track Rewrite Errors	0xffff
Write Errors After Remap	0x0000
Background Firmware Revision	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

```

Media Failures          0x0000
Hardware Errors         0x0000
Aborted Command Failures 0x0000
Spin Up Failures       0x0000
Bad Target Count       0 (0x0000)
Predictive Failure Errors 0x00000000

```

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:1 : Serial SCSI Physical Drive Error Log

```

Entry Size          20 (0x14)
Entry Count         64 (0x0040)
Next Entry Offset   0x00
Errors Logged       0 (0x00000000)

```

Physical Drive Error Log Entries

```

Reference Time      0x0000000a

```

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1I : Box 3 : Physical Drive (300 GB SAS HDD) 1I:3:1 : Mode Sense 10

```

Header              0x00 0xe6 0x00 0x10 0x00 0x00 0x00 0x08 0x22 0xec 0xb2 0x5c 0x00 0x00
0x02 0x00

```

```

Mode Page           Page Number Page Data

```

```

-----
0x01      0x81 0x0a 0xc4 0x3f 0xff 0x00 0x00 0x00 0x3f 0x00 0x1b 0x58
0x02      0x82 0x0e 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00
0x03      0x83 0x16 0x00 0x6e 0x00 0x00 0x00 0x00 0x00 0x14 0x0a 0xb8 0x02
0x00 0x00 0x01 0x02 0x73 0x00 0xa8 0x40 0x00 0x00 0x00

```

```

0x04 0x84 0x16 0x01 0xa1 0x0f 0x02 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x29 0x04 0x00 0x00

0x07 0x87 0x0a 0x04 0x3f 0xff 0x00 0x00 0x00 0x00 0x00 0x1b 0x58

0x08 0x88 0x12 0x10 0x00 0xff 0xff 0x00 0x00 0x00 0x00 0xff 0xff 0x80 0x08
0x00 0x00 0x00 0x00 0x00 0x00

0x09 0x89 0x0e 0x0c 0x20 0x00 0x00 0x00 0x0b 0x00 0x00 0x00 0x00 0x00
0x0c 0xc2 0x00

0x0a 0x8a 0x0a 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x08 0x92

0x18 0x98 0x06 0x06 0x00 0x00 0x00 0x00 0x00

0x19 0x99 0x0e 0x36 0x00 0x07 0xd0 0x27 0x10 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00

0x1a 0x9a 0x26 0x80 0x02 0x00 0x00 0x00 0x14 0xff 0xff 0xff 0xff 0xff 0xff
0xff 0xff 0xff 0xff 0xff 0xff 0xff 0xff 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0xa8

0x1c 0x9c 0x0a 0x11 0x04 0x00 0x00 0x0b 0xb8 0x00 0x00 0x00 0x02

0x21 0xa1 0x02 0x0f 0x00

```

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1l : Box 3 : Physical Drive (300 GB SAS HDD) 1l:3:1 : VPD Page 80 - Serial Number

Product Serial Number 27N0A0HJFXFD1708

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 1l : Box 3 : Physical Drive (300 GB SAS HDD) 1l:3:1 : VPD Page 83 - Array Information

Array	Code Set	Identifier	Type	Association	Identifier	Length	Identifier
0xc5	0x01	0x03	0x00	0x08	0x50 0x00 0x03 0x97 0x98 0x50 0x4d		
0xc6	0x01	0x03	0x01	0x08	0x50 0x00 0x03 0x97 0x98 0x50 0x4d		

```

0x01 0x04 0x01 0x04 0x00 0x00 0x00 0x01
0x01 0x03 0x02 0x08 0x50 0x00 0x03 0x97 0x98 0x50 0x4d
0xc4
0x03 0x08 0x02 0x18 0x6e 0x61 0x61 0x2e 0x35 0x30 0x30
0x30 0x30 0x33 0x39 0x37 0x39 0x38 0x35 0x30 0x34 0x44 0x43 0x34 0x00 0x00 0x00 0x00

```

Smart Array P440ar in Embedded Slot : Internal Drive Cage at Port 2I : Box 0 : Sense Bus Parameters

```

Peripheral Type      0x00
RMB                  0x00
Versions             0x00
Misc                 0x00
Additional Length    0x00
Support Bits         0x00
Vendor ID            empty
Product ID           empty
Product Revision     empty
Inquiry Valid        0x00
Installed Drive Map  0x00000000
Hot Plug Count       All Zeroes (32 x [0x0000])
Physical Box         0 (0x00)
Alarm Status         0x00
Temp Status          0x00
Valid Alarm Bits     0x00
Alarm Count          0 (0x0000)
Specific Alarm Counts All Zeroes (8 x [0x0000])
Connection Flags     0x0002

```

Position	Connection Flag	Status
----------	-----------------	--------

1 Internal Connector Is Used Informational

SCSI Device Revision 0x01
Fan Status 0x00
More Inquiry Data All Zeroes (64 x [0x00])
SCSI Device Type 0x3239103c
Bus Map 0x00000000
Interrupt Count 0 (0x00000000)
Ultra Bus Faults 0x00000000
SCSI Initiator ID 0 (0x00)
SCSI Target ID 0 (0x00)
Physical Port 21
Big Installed Drive Map All Zeroes (16 x [0x00])
Big Bus Map 0xf0 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00
Big Box Map 0xf0 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00
Installed Box Map 0x00
More Connection Flags 0x00

Position Connection Flag Status

2 Using Id Numbering Informational

Bay Count 4 (0x04)
Expander Count 0 (0x00)
Chassis Serial Number empty
Fast Bus Faults 0x00000000
Ultra 2 Bus Faults 0x00000000

Ultra 3 Bus Faults	0x00000000
Ultra 320 Bus Faults	0x00000000
SEP Count	1 (0x01)
SEP Device Types	0x04 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
SEP Device Numbers	0x017c 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
Expander Device Numbers	All Zeroes (16 x [0x0000])
Offset To Extended Installed Drive Map	1210 (0x04ba)
Offset To Extended Bus Map	1258 (0x04ea)
Offset To Extended Box Map	1306 (0x051a)
Total Structure Length	1354 (0x0000054a)
Offset To Element Type Modules	0 (0x0000)
Maximum Physical Devices Supported	384 (0x0180)
IO Module Present Map	0x01
Active IO Module Number	0x00
IO Module Failure Map	0x00
Redundant Path Present Map	0x00
Redundant Path Failure Map	0x00
Active Path Number	0x00
Multi Path Port	All Zeroes (16 x [0x00])
Multi Path Box 1	0x00
Multi Path Box 2	0x00
Multi Path Box 3	0x00
Multi Path Box 4	0x00
Multi Path Box 5	0x00
Multi Path Box 6	0x00
Multi Path Box 7	0x00
Multi Path Box 8	0x00

Zoned In Enclosure Bay Map All Zeroes (32 x [0x00])

Position Zoned In Enclosure Bay Status

0	False	Informational
1	False	Informational
2	False	Informational
3	False	Informational
4	False	Informational
5	False	Informational
6	False	Informational
7	False	Informational
8	False	Informational
9	False	Informational
10	False	Informational
11	False	Informational
12	False	Informational
13	False	Informational
14	False	Informational
15	False	Informational
16	False	Informational
17	False	Informational
18	False	Informational
19	False	Informational
20	False	Informational
21	False	Informational
22	False	Informational
23	False	Informational
24	False	Informational
25	False	Informational

26	False	Informational
27	False	Informational
28	False	Informational
29	False	Informational
30	False	Informational
31	False	Informational
32	False	Informational
33	False	Informational
34	False	Informational
35	False	Informational
36	False	Informational
37	False	Informational
38	False	Informational
39	False	Informational
40	False	Informational
41	False	Informational
42	False	Informational
43	False	Informational
44	False	Informational
45	False	Informational
46	False	Informational
47	False	Informational
48	False	Informational
49	False	Informational
50	False	Informational
51	False	Informational
52	False	Informational
53	False	Informational
54	False	Informational

55	False	Informational
56	False	Informational
57	False	Informational
58	False	Informational
59	False	Informational
60	False	Informational
61	False	Informational
62	False	Informational
63	False	Informational
64	False	Informational
65	False	Informational
66	False	Informational
67	False	Informational
68	False	Informational
69	False	Informational
70	False	Informational
71	False	Informational
72	False	Informational
73	False	Informational
74	False	Informational
75	False	Informational
76	False	Informational
77	False	Informational
78	False	Informational
79	False	Informational
80	False	Informational
81	False	Informational
82	False	Informational
83	False	Informational

84	False	Informational
85	False	Informational
86	False	Informational
87	False	Informational
88	False	Informational
89	False	Informational
90	False	Informational
91	False	Informational
92	False	Informational
93	False	Informational
94	False	Informational
95	False	Informational
96	False	Informational
97	False	Informational
98	False	Informational
99	False	Informational
100	False	Informational
101	False	Informational
102	False	Informational
103	False	Informational
104	False	Informational
105	False	Informational
106	False	Informational
107	False	Informational
108	False	Informational
109	False	Informational
110	False	Informational
111	False	Informational
112	False	Informational

Long Connector Name 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

 0xf0 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00

Extended Installed Drive Map All Zeroes (48 x [0x00])

Extended Bus Map 0xf0 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

Position Status

- 4 Informational
- 5 Informational
- 6 Informational
- 7 Informational