



HP Storage Driver Support for Linux

Jan '06

AG0106

Controller	Driver version	Kernels Supported	RPM Module	Servers Supported (Default Controller)	Options
Red Hat Enterprise Linux 3					
HP Smart Array Controller (x86) Driver for Red Hat Enterprise Linux 3 (x86)	2.4.56-6	2.4.21-15 > 2.4.21-32.0.1	cpq_cciss-2.4.56-6.rhel3.i686.rpm	1,2,3,4,5,6,15,18,20,22,23,25,26,40,42,47,49,50	1,2,3,4,5,6,7,8,9,14
HP Smart Array Controller (AMD32) Driver for Red Hat Enterprise Linux 3 (x86)	2.4.56-6	2.4.21-15 > 2.4.21-32.0.1	cpq_cciss-2.4.56-6.rhel3.amd32.rpm	3,5,24,44	1,2,3,4,5,6,7,8,9,14
HP ProLiant Smart Array Controller (AMD64) for Red Hat Enterprise Linux 3 (AMD64/EM64T)	2.4.56-6	2.4.21-15 > 2.4.21-32.0.1	cpq_cciss-2.4.56-6.rhel3.amd64.rpm	3,5,24,44	1,2,3,4,5,6,7,8,9,14
HP ProLiant Smart Array Controller (EM64T) for Red Hat Enterprise Linux 3 (AMD64/EM64T)	2.4.56-6	2.4.21-15 > 2.4.21-32.0.1	cpq_cciss-2.4.56-6.rhel3.em64t.rpm	15,18,20,40,42,47,49,50	1,2,3,4,5,6,7,8,9,14
HP StorageWorks FCA2214/FCA2214DC FC HBA Driver for 2.4.x Kernels	7.05.00-15	2.4.21-15 > 2.4.99-99	hp_qla2x00src-7.05.00-15.linux.rpm		13
HP ProLiant 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Controller Driver for Red Hat Enterprise Linux 3	6.3.10-1	2.4.21-20 > 2.4.21-20	aic7xxx-6.3.10-1.rhel3qu3.i686.rpm	10,43	12
HP U320 SCSI Adapter and SAS HBA with RAID Driver for Red Hat Enterprise Linux 3 (x86)	2.06.24-4	2.4.21-9 > 2.4.21-20	mptlinux-2.06.24-4.rhel3.i686.rpm	52	10,11, 16
HP U320 SCSI Adapter and SAS HBA with RAID Driver (AMD32) for Red Hat Enterprise Linux 3 (x86)	2.06.24-4	2.4.21-9 > 2.4.21-20	mptlinux-2.06.24-4.rhel3.amd32.rpm		10,11, 16
HP U320 SCSI Adapter and SAS HBA with RAID Driver (AMD64) for Red Hat Enterprise Linux 3 (AMD64/EM64T)	2.06.24-4	2.4.21-15 > 2.4.21-20	mptlinux-2.06.24-4.rhel3.amd64.rpm		10,11, 16
HP U320 SCSI Adapter and SAS HBA with RAID Driver (EM64T) for Red Hat Enterprise Linux 3 (AMD64/EM64T)	2.06.24-4	2.4.21-15 > 2.4.21-20	mptlinux-2.06.24-4.rhel3.em64t.rpm	52	10,11, 16
HP Embedded SATA RAID Controller Driver for Red Hat Enterprise 3 (x86)	6.00.075	2.4.21-4, 2.4-21-20	aaarch-6.00.075-1.rhel3.i686.rpm	12,35	
HP Embedded SATA RAID Controller Driver (for SP4) for RedHat Enterprise Linux 3 (x86)	v1.19.V414A19.V041A7	2.6.9-27.EL	adphci.v1.19.V414A19.V041A7.rhel3qu4.i686.rpm	51	
HP Embedded SATA RAID Controller Driver (for SP5) for RedHat Enterprise Linux 3 (x86)	v1.19.V414A19.V041A7	2.6.9-32.EL	adphci.v1.19.V414A19.V041A7.rhel3qu5.i686.rpm	51	
HP Emulex Based Fiber Channel Mezzanine HBA Driver for the 2.4 Kernel	7.3.2-2	2.4.21-27 > 2.4.99-99	hp-lpfc-7.3.2-2.linux.rpm		17
Red Hat Enterprise Linux 4					
HP Smart Array Controller (x86/AMD32) Driver for Red Hat Enterprise Linux 4 (x86/AMD32)	2.6.6-6	2.6.9-5 > 2.6.9-11	cpq_cciss-2.6.6-6.rhel4.i686.rpm	1,2,3,4,5,6,15,18,20,22,23,25,26,40,42,44,47,49,50	1,2,3,4,5,6,7,8,9,14
HP Smart Array Controller (AMD64/EMT64T) Driver for Red Hat Enterprise Linux 4 (AMD64/EMT64T)	2.6.6-6	2.6.9-5 > 2.6.9-11	cpq_cciss-2.6.6-6.rhel4.x86_64.rpm	15,18,20,40,42,44,47,49,50	1,2,3,4,5,6,7,8,9,14
HP StorageWorks FCA2214/FCA2214DC FC HBA Driver for 2.6.x Kernels	8.00.02-17	2.6.9-5 > 2.6.99-99	hp_qla2x00src-8.00.02-17.linux.rpm		13
HP Embedded SATA RAID Controller Driver (for SP1) for Red Hat Enterprise Linux 4 (x86)	v1.19.V414A19.V041A7	2.6.9-11.EL	adphci.v1.19.V414A19.V041A7.rhel4qu1.i686.rpm	28,51	
HP Embedded SATA RAID Controller Driver for Red Hat Enterprise Linux 4 (x86)	v1.19.V414A19.V041A7	2.6.9-5.EL	adphci.v1.19.V414A19.V041A7.rhel4.i686.rpm	28,51	
HP U320 SCSI Adapter and SAS HBA with RAID (AMD32 & x86) Driver for Red Hat Enterprise Linux 4 (x86)	3.02.56-4	2.6.9-5 > 2.6.9-11	mptlinux-3.02.56-4.rhel4.i686.rpm	29	16
HP Emulex Based Fiber Channel Mezzanine HBA Driver for the 2.6 Kernel	8.0.16.17-3	2.6.9-11.EL > 2.6.99-99	hp-lpfc-8.0.16.17-3.linux.rpm		17
Kernel Driver					
Required driver included in kernel (ex: ata_piix, sata_nv)				9,11,30,34,45,46,48	



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Controller	Driver version	Kernels Supported	RPM Module	Servers Supported (Default Controller)	Options
SUSE Linux Enterprise Server 8 / (United Linux 1.0)					
ProLiant Linux (x86) driver for Smart Array 6i, 64xx, 5i, 53xx Series controllers for LINUX Enterprise Server 8 (x86)	2.4.56-6	2.4.21-138 > 2.4.21-273	cpq_cciss-2.4.56-6.ul10.i586.rpm	1,2,3,4,5,6,15,18,20, 22,23,25,26,40,42, 44	1,2,3,4,5,6, 7,8,9,14
ProLiant Linux (AMD64) driver for Smart Array 6i, 64xx, 5i, 53xx Series controllers for LINUX Enterprise Server 8 (AMD64)	2.4.56-6	2.4.21-143 > 2.4.21-273	cpq_cciss-2.4.52-11.ul10.amd64.rpm	3,5,24	1,2,3,4,5,6, 7,8,9,14
HP StorageWorks FCA2214/FCA2214DC FC HBA Driver for 2.4.x Kernels	7.05.00-15	2.4.21-138 > 2.4.99-99	hp_qla2x00src-7.05.00-15.linux.rpm		13
HP ProLiant Integrated Ultra ATA-100 Dual Channel Driver for UnitedLinux 1.0	2.26j-14	2.4.21-138 > 2.4.21-273	megaide-2.26j-14.ul10.i586.rpm	9	
HP ProLiant 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Controller Driver for UnitedLinux 1.0	6.3.10-1	2.4.21-138 > 2.4.21-251	aic7xxx-6.3.10-1.ul10_sp3.i586.rpm	10,38,39,43	12
HP U320 SCSI Adapter and SAS HBA with RAID Driver for SUSE LINUX Enterprise Server 8 (x86)	2.06.24-4	2.4.21-138 > 2.4.21-292	mptlinux-2.06.24-4.sles8.i586.rpm		10,11,16
HP U320 SCSI Adapter and SAS HBA with RAID Driver for SUSE LINUX Enterprise Server 8 (AMD64)	2.06.24-4	2.4.21-138 > 2.4.21-292	mptlinux-2.06.24-4.sles8.amd64.rpm		10,11,16
HP ProLiant CSB-6 ATA-100 IDE RAID Driver for UnitedLinux1.0	2.50d-14	2.4.21-138 > 2.4.21-273	lsiscb6-2.50d-8.ul10.i586.rpm	37	
HP Emulex Based Fiber Channel Mezzanine HBA Driver for the 2.4 Kernel	7.3.2-2	2.4.21-143 > 2.4.99-99	hp-lpfc-7.3.2-2.linux.rpm		17
Controller	Driver version	Kernels Supported	RPM Module	Servers Supported (Default Controller)	Options
SUSE Linux Enterprise Server 9 / Open Enterprise Server					
HP ProLiant Smart Array Controller (x86) Driver for SUSE Linux Enterprise Server 9	2.6.6-6	2.6.5-7.97 > 2.6.5-7.191	cpq_cciss-2.6.6-6.sles9.i586.rpm	1,2,3,4,5,6,15,18,20, 22,23,25,26,40,42, 44,47,50	1,2,3,4,5,6, 7,8,9,14
HP ProLiant Smart Array Controller (AMD64/EMT64T) Driver for SUSE Linux Enterprise Server 9 (AMD64/EMT64T)	2.6.6-6	2.6.5-7.97 > 2.6.5-7.191	cpq_cciss-2.6.4-17.sles9.x86_64.rpm	2,3,5,15,18,20,24,4 0,42,44,47,50	1,2,3,4,5,6, 7,8,9,14
HP StorageWorks FCA2214/FCA2214DC FC HBA Driver for 2.6.x Kernels	8.00.02-17	2.6.5-7.97 > 2.6.99-99	hp_qla2x00src-8.00.02-17.linux.rpm		13
HP ProLiant 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Controller Driver for SUSE LINUX Enterprise Server 9 (x86)	6.3.10-1	2.6.5-7.97 > 2.6.5-7.108	aic7xxx-6.3.10-1.sles9.i586.i586.rpm	10,41,43	12
HP Embedded SATA RAID Controller Driver for SUSE LINUX Enterprise Server 9 (x86)	6.00.076A	2.6.5-7.97	aaarch-6.00.075-1.sles9.i586.i586.rpm	12,35	
HP U320 SCSI Adapter and SAS HBA with RAID Driver for SUSE LINUX Enterprise Server 9 (x86)	3.02.56-4	2.6.5-7.97 > 2.6.5-7.191	mptlinux-3.02.56-4.sles9.i586.rpm	29,52	10,11,16
HP Embedded SATA RAID Controller Driver for SUSE Linux Enterprise Server 9 (x86)	v1.19.V414 A19.V041A 7	2.6.5-7.97	adphci.v1.19.V414A19.V041A7.sles9.i586.rpm	28,51	
HP Embedded SATA RAID Controller Driver (for SP1) for SUSE Linux Enterprise Server 9 (x86)	v1.19.V414 A19.V041A 7	2.6.5-7.139	adphci.v1.19.V414A19.V041A7.sles9sp1.i586.rpm	28,51	
HP Embedded SATA RAID Controller Driver (for SP2) for SUSE Linux Enterprise Server 9 (x86)	v1.19.V414 A19.V041A 7	2.6.5-7.191	adphci.v1.19.V414A19.V041A7.sles9sp2.i586.rpm	28,51	
HP Embedded SATA RAID Controller Driver for SUSE Linux Enterprise Server 9 (AMD64/EM64T)	v1.19.V414 A19.V041A 7	2.6.5-7.97	adphci.v1.19.V414A19.V041A7.sles9.x86_64.rpm	28,51	
HP Embedded SATA RAID Controller Driver (for SP1) for SUSE Linux Enterprise Server 9 (AMD64/EM64T)	v1.19.V414 A19.V041A 7	2.6.5-7.139	adphci.v1.19.V414A19.V041A7.sles9sp1.x86_64.rpm	28,51	
HP Embedded SATA RAID Controller Driver (for SP2) for SUSE Linux Enterprise Server 9 (AMD64/EM64T)	v1.19.V414 A19.V041A 7	2.6.5-7.191	adphci.v1.19.V414A19.V041A7.sles9sp2.x86_64.rpm	28,51	
HP Emulex Based Fiber Channel Mezzanine HBA Driver for the 2.6 Kernel	8.0.16.17-3	2.6.5-7.139 > 2.6.99-99	hp-lpfc-8.0.16.17-3.linux.rpm		17
Controller	Driver version	Kernels Supported	RPM Module	Servers Supported (Default Controller)	Options
Kernel Driver					
Required driver included in kernel (ex: ata_piix, sata_nv)				9,11,30,34,45,46,48	10,11

HP Servers & Storage Options

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ProLiant Server	Unit number	Notes	ProLiant Server	Unit number	Notes
BL20p G3	2		ML110 G2 SATA	30	
BL25p	3		ML110 G2 SCSI	31	
BL30p	4		ML110 G3 SATA	28	
BL35p	5		ML110 G3 SCSI	29	
BL40p	6		ML150 G2 SATA	32	
BL45p	44		ML150 G2 SCSI	33	
ProLiant Server	Unit number	Notes	ProLiant Server	Unit number	Notes
DL140 G2	45	SCSI model uses Single Channel U320 SCSI controller	ML310 G2 SATA RAID	34	
DL145 G2	46	SCSI model uses Single Channel U320 SCSI controller	ML310 G2 SCSI	35	
DL320 G3 SATA	11		ML310 G3 SATA RAID	51	
DL320 G3 SATA RAID	12		ML310 G3 SCSI	52	
DL360 G4 SCSI	15	SAS model uses P600	ML350 G4	40	
DL360 G4 SATA	16	SAS model uses P600	ML350 G4p SATA	48	
DL360 G4p SATA	17	SAS model uses P600	ML350 G4p SCSI	49	
DL360 G4p SCSI	18	SAS model uses P600	ML370 G4	42	SAS model uses P600, High Performance Model user SA6402
DL380 G4	20	SAS model uses P600	ML570 G2	43	
DL385	21	SAS model uses P600	ML570 G3	50	
DL560	22			Options	
DL580 G2	23		Smart Array 6404	1	Uses CCISS driver
DL580 G3	47	SAS model uses P600	Smart Array 6402	2	Uses CCISS driver
DL585	24		Smart Array 642	3	Uses CCISS driver
DL740	25		Smart Array 641	4	Uses CCISS driver
DL760 G2	26		Smart Array 5304	5	Uses CCISS driver
			Smart Array 5302	6	Uses CCISS driver
			Smart Array 532	7	Uses CCISS driver
			Smart Array 6i	8	Uses CCISS driver
			Smart Array 5i Plus	9	Uses CCISS driver
			64-bit/133MHz Dual Channel Ultra320	10	Uses MPTLinux driver
			64-bit/133MHz Single Channel Ultra320 G2	11	Uses MPTLinux driver
			64-bit/66MHz Dual Channel Ultra3	12	Uses MPTLinux driver
			HP Storageworks FCA2214/FCA2214DC	13	
			Smart Array P600	14	Uses CCISS driver
			HP 6 Port SATA RAID	15	Uses AACRAID driver
			HP 8 Internal Port SAS HBA	16	Uses MPTLinux driver
			Emulex Based Fiber Channel Mezzanine HBA	17	



Driver versions included in Kernel

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RH 3.0	Kernel Version	CCISS	MPT Fusion	AIC7xxx	QLA2XXX
Update 1	2. 4. 21-9. EL	2. 4. 47	2. 05. 05+	6. 2. 36	6. 06. 00b11
Update 2	2. 4. 21-15. EL	2. 4. 50	2. 05. 11. 03	6. 2. 36	6. 07. 02
Update 3	2. 4. 21-20. EL	2. 4. 52	2. 05. 16	6. 2. 36	7. 00. 03
Update 4	2. 4. 21-27. EL	2. 4. 52	2. 05. 16. 02	6. 2. 36	7. 01. 01
Update 5	2. 4. 21-32. EL	2. 4. 54	2. 05. 16. 02	6. 2. 36	7. 01. 01
Update 6	2. 4. 21-37. EL	2. 4. 58	2. 05. 16i . 01	6. 2. 36	7. 05. 00
RH 4.0	Kernel Version	CCISS	MPT Fusion	AIC7xxx	QLA2XXX
Initial Release	2. 6. 9-e. 5. EL	2. 6. 4	3. 01. 16	6. 2. 36	8. 00. 00b21
Update 1	2. 6. 9-11. EL	2. 6. 4	3. 01. 16	6. 2. 36	8. 00. 00b21
Update 2	2. 6. 9-22. EL	2. 6. 8	3. 02. 18	6. 2. 36	8. 01. 00b5
SLES 8	Kernel Version	CCISS	MPT Fusion	AIC7xxx	QLA2XXX
SP2	2. 4. 19-290	2. 4. 44	2. 05. 05+	6. 2. 28	6. 05. 00b5
SP2a	2. 4. 19-304	2. 4. 44	2. 05. 05+	6. 2. 29	6. 06. 00
SP3	2. 4. 21-143	2. 4. 48	2. 05. 05+	6. 2. 36	6. 06. 00
SP4	2. 4. 21-278	2. 4. 52	2. 05. 05+	6. 2. 36	7. 03. 00
SLES 9	Kernel Version	CCISS	MPT Fusion	AIC7xxx	QLA2XXX
Initial Release	2. 6. 5-7. 97	2. 6. 0	3. 01. 03	6. 2. 36	8. 00. 00b14
SP1	2. 6. 5-7. 139	2. 6. 4	3. 01. 14. 23	6. 2. 36	8. 00. 00
SP2	2. 6. 5-7. 191	2. 6. 6	3. 02. 18	6. 2. 36	8. 00. 02