



NetApp

NetApp Hardware Universe – Adapter Cards – RC-0034-1111 – Side A – 11-08-2011

	Card Type	Part Number / Description	Media	Optical Module FRU (Mfr Part Number)	Min Data ONTAP®	Fabric-Attached Storage (FAS) and V-Series												Storage Acceleration		
						6280	6240	6210	6080	6040	3270	3240	3210	3170	3160	3140	2240	620	600	320
FIBRE CHANNEL	PCle	X1128A-R6 FCP TARGET 2-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2 / 7.3 8.0 / 8.1				4	4	6	6	2	2	2	2				
	PCle	X1130A-R6 FCP TARGET 4-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.3 / 8.0 8.1	6	6	4	5	5	6	6	2	4	4	4				
	PCle	X1131A-R6 FCP TARGET 2-Port 8Gb	Op - LC	SFP module pre-installed (FTLF8528P2BCV-QL) No optical FRU available	7.3 / 8.0 8.1	12	12	4	5	5	6	6	2	4	4	4				
	PCle	X2053A-R6 DISK/TAPE 2-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2 / 7.3 8.0 / 8.1	8	8	4	3	3	6	6	2	4	4	4				
	PCle	X2054A-R6 DISK/TAPE 4-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2.2 / 7.3 8.0	12	12	4	5	5	6	6	2	4	4	4		12	5	6
	PCle	X2054B-R6 DISK/TAPE 4-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2.3 / 7.3 8.0 / 8.1				5 ¹	5 ¹				4 ¹	4 ¹	4 ¹			5	
	PCle	X2055A-R6 DISK 2-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2 / 7.3 8.0 / 8.1	12	12	4	5	5	6	6	2	4	4	4		12	5	6
	PCle 2.0	X2056A-R6 DISK 4-Port 8Gb	Op - LC	X6588-R6 (AFBR-57D7AP2 or FTLF8528P2BNV)	8.0.1 / 8.1	3	3	1										3		
	PCI-X	X2052A-R5 DISK / TAPE 4-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2.1 / 7.3 8.0 / 8.1				3 ¹	3 ¹										
	Mezzanine	X1150A-R6 TARGET/DISK/TAPE 2-Port 8Gb	Op - LC	X6588-R6 (AFBR-57D7AP2 or FTLF8528P2BNV)	8.1												1			
ETHERNET	PCle	X1006A-R5 TOE 4-Port GbE	Cu - RJ45	-	7.2.1 / 7.3 8.0 / 8.1				5	5				4	4	4			5	
	PCle	X1008A-R6 TOE 2-Port 10GbE	Op - LC	SFP module pre-installed (TRX10GVP2001CH01) No optical FRU available	7.2.1 / 7.3 8.0 / 8.1				5	5				4	4	4			5	
	PCle	X1038A-R6 NIC 2-Port GbE	Op - LC	Fixed Optics Non-removable	7.2 / 7.3 8.0 / 8.1	10 ²	10 ²	4	5	5	6	6	2	4	4	4		12 ²	5	6
	PCle	X1039A-R6 NIC 2-Port GbE	Cu - RJ45	-	7.2 / 7.3 8.0 / 8.1				5	5				4	4	4			5	
	PCle	X1049B-R6 NIC 4-Port GbE	Cu - RJ45	-	7.3.5 / 8.0.2 8.1	5 ²	5 ²	4	5	5	6	6	2	4	4	4		6	5	6
	PCle	X1107A-R6 NIC 2-Port 10GbE	Op - LC	X6563-R6 (PLRXPL-SC-S43-42B or FTLX8571D3BCL)	7.3.2 / 8.0 8.1				5	5	6	6	2	4	4	4			5	6
	PCle	X1117A-R6 NIC 2-Port 10GbE	Op - LC	X6569-R6 (FTLX8571D3BCV-IT)	8.0.1 / 8.1	8 ²	8 ²	4										8		
	PCle	X1139A-R6 Unified Target 2-Port 10Gb	Op - LC	SFP module pre-installed (PLRXPL-VC-S43-21-N) No optical FRU available	7.3.2 / 8.0.1 8.1	10 ²	10 ²	4	5	5	6	6	2	4	4	4				
	PCle	X1140A-R6 Unified Target 2-Port 10Gb	Cu - SFP+	-	7.3.2 / 8.0.1 8.1	10 ²	10 ²	4	5	5	6	6	2	4	4	4				
	PCI-X	X1005A-R5 TOE 1-Port 10GbE	Op - LC	SFP module pre-installed (TRX10GVP2001CH01) No optical FRU available	7.2 / 7.3 8.0 / 8.1				2	2									2	
	PCI-X	X1007A-R5 TOE 4-Port GbE	Cu - RJ45	-	7.2 / 7.3 8.0 / 8.1				2	2									2	
	PCI-X	X1047B-R6 NIC 4-Port GbE	Cu - RJ45	-	7.2.1 / 7.3 8.0 / 8.1				3	3									3	
	Mezzanine	X1160A-R6 NIC 2-Port 10GbE	Cu - SFP+	X6589-R6 (AFBR-703SDZ-NA2 or FTLX8571D3BCL-NQ)	8.1												1			



NetApp Hardware Universe – Adapter Cards – RC-0034-1111 – Side B – 11-08-2011

							Fabric-Attached Storage (FAS) and V-Series												Storage Acceleration		
Card Type		Part Number / Description	Media	Optical Module FRU (Mfr Part Number)	Min Data ONTAP®	6280	6240	6210	6080	6040	3270	3240	3210	3170	3160	3140	2240	620	600	320	
SCSI / SAS	PCIe	X2028A-R6 TAPE 2-Port SCSI-LVD/SE	Cu - 68p VHDCI	-	7.2 / 7.3 8.0 / 8.1	8	8	4	3	3	6	6	2	4	4	4					
	PCIe	X2065A-R6 SAS, 4-Port, 6Gb	Cu - QSFP	-	7.3.2 / 8.0 8.1	6	6	4	5	5	6	6	2	4	4	4		6	5	6	
	PCIe 2.0	X2067-R6 SAS, 4-Port, 6Gb	Cu - QSFP	-	8.0.1 / 8.1	3	3	1										3			
	PCI-X	X2027B-R5 TAPE 2-Port SCSI-LVD/SE	Cu - 68p VHDCI	-	7.2 / 7.3 8.0 / 8.1				3	3											
CONTROLLER INTERCONNECT	PCIe	X1926A-R6 MetroCluster™ FC-VI 2-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2.3 / 8.0 8.1				1	1				1	1	1					
	PCIe	X1927A-R6 MetroCluster™ FC-VI 2-Port 8Gb	Op - LC	SFP module pre-installed (FTLF8528P2BCV-QL) No optical FRU available	8.0.1 / 8.1	1	1	1			1	1	1								
	PCIe	X3147-R5 NVRAM6 512MB	Cu - IB4X	X1949A-R5 (optional)	7.2 / 7.3 8.0 / 8.1					1											
	PCIe	X3148-R5 NVRAM6 2GB	Cu - IB4X	X1949A-R5 (optional)	7.2 / 7.3 8.0 / 8.1				1										1		
	PCIe	X3149-R6 NVRAM8 4GB	Cu-QSFP	X1956-R6 (optional)	8.0.1 / 8.1	1	1	1										1			
OTHER	PCIe	X1124A-R6 SnapMirror® over FC 2-Port 4Gb	Op - LC	Fixed Optics Non-removable	7.2.2 / 7.3 8.0 / 8.1				2	2				2	2	2					
	PCIe	X1142A-R6 SnapMirror® over FC 2-Port 8Gb	Op - LC	SFP module pre-installed (FTLF8528P2BCV-QL) No optical FRU available	8.0.1 / 8.1	4	4	3	2		1	1	1								
	PCIe	X1970A-R5 Flash Cache - 256GB	-	-	7.3.5 / 8.0.2 8.1							2	1		2	1					
	PCIe	X1971A-R5 Flash Cache - 512GB	-	-	7.3.5 / 8.0.2 8.1	8	6	3	4	2	2	1		2				8	4	2	
	PCIe	X1972A-R5 Flash Cache - 1TB	-	-	7.3.5 / 8.0.2 8.1	8	3	1			1										

Cu – Copper Connector
FAS – Fabric-Attached Storage
FCP – Fibre Channel Protocol
FC – Fibre Channel
FRU – Field Replacement Unit
GbE – Gigabit Ethernet
IB4X – InfiniBand 4X
LC – Lucent Connector
NIC – Network Interface Card

NVRAM – Nonvolatile RAM
Op – Optical Connector
PAM – Performance Acceleration Module
QSFP – Quad Small Form-Factor Pluggable
SAS – Serial-Attached SCSI
SC – Subscriber Connector
SFP – Small Form-Factor Pluggable
TOE – TCP/IP Offload Engine

¹ Not supported on V-Series model.

² Maximum number of Ethernet ports on all network adapter cards is 18 in 8.0.1 and 20 in 8.0.2.

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