

# **NetCache® C720 Appliance System Configuration**

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## ***NetCache C720 Appliance System Memory***

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The C720 appliance system memory comes standard with a maximum of 512 MB.

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## ***NetCache C720 Appliance NVRAM Memory***

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The C720 appliance comes standard with a maximum of 8 MB of NVRAM on the NVRAM II adapter in slot 9.

The C720 appliance NVRAM II adapter and SIMMs are compatible with the adapter and SIMMs for other F700/C700 series and the F630/C630 series.

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## NetCache C720 Appliance SCSI Port Assignments

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The following table provides the number of SCSI ports for disk drive devices that you can attach to the C720 appliance.

<b>Device</b>	<b>C720 SCSI port<sup>1</sup></b>	<b>Notes</b>
Shelves 1 and 2	8a	Port 8 is occupied by a standard 2-port fast/wide/differential SCSI adapter that supports up to 4 disk shelves (PN: X2022A; required for support of up to 26 disk drives [4 disk shelves]).
Shelves 3 and 4	8b	
Shelves 5 and 6	7a	Slot 7 is available for an optional 2-port fast/wide/differential SCSI adapter (PN: X2022B; required for support of more than 26 disk drives [4 disk shelves]).
Shelves 7 and 8	7b	

<sup>1</sup> Each SCSI port on the NetApp C720 supports dual disk shelves that are connected to each other in a daisy chain. The first disk shelf in the chain is attached to the appliance's SCSI port.

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## NetCache C720 Appliance StorageShelf Support

The following table shows the supported types of disk storage shelves and disk drives on the C720 appliance.

<b>StorageShelf</b>	<b>Disk drives</b>	<b>Standard power supply/optional RPS</b>	<b>Notes</b>
<b>Dual StorageShelf 2</b>	<b>9-GB SCSI (PN: X219C):</b> <ul style="list-style-type: none"> <li>• Maximum of 13 per shelf pair</li> <li>• Maximum of 52 drives per C720 (4 shelf pairs x 13 9-GB disks = 468 GB total per C720).</li> <li>• Uses standard dual-channel differential SCSI adapter in expansion slot 8 (PN: X2022A) and expansion slot 7 (PN: X2022B). Each port supports up to a pair of disk shelves.</li> </ul>	1/1 (110V-PN: X603 220V-PN: X604)  Maximum of two power supplies per shelf.	Maximum of 8 Dual StorageShelf 2 shelves (4 pairs), which are available in the following configurations:  <b>110V model:</b> 6x9-GB drives (PN: X642C) 13x9-GB drives (PN: X643C) Empty (PN: X617)  <b>220V model (2i):</b> 6x9-GB drives (PN: X648C) 13x9-GB drives (PN: X649C) Empty (PN: X645)
<b>Fibre Channel StorageShelf FC7</b>	<b>9-GB Fibre Channel (PN: X219F):</b> <ul style="list-style-type: none"> <li>• Maximum of 7 per shelf</li> <li>• Maximum of 28 drives per C720 (4 shelves x 7 9-GB disks = 252 GB total per C720)</li> </ul>	1/1 (110V-PN: X608) 220V-PN: X609)  Maximum of two power supplies per shelf.	Maximum of 4 Fibre Channel StorageShelf FC7 shelves, which are available in the following configurations:  <b>110V model:</b> 3x9-GB drives (PN: X651A) 7x9-GB drives (PN: X652A) Empty (PN: X650A)  <b>220V model:</b> 3x9-GB drives (PN: X654A) 7x9-GB drives (PN: X655A) Empty (PN: X653A)

<b>Fibre Channel StorageShelf FC8</b>	<b>18-GB Fibre Channel</b> (PN: X221A or X221C): <ul style="list-style-type: none"> <li>• Maximum of 7 per shelf</li> <li>• Maximum of 14 drives per C720 (2 shelves x 7 18-GB disks = 252 GB total per C720)</li> </ul>	1/1 (110/220V- PN: X610B) <p>Maximum of two power supplies per shelf.</p>	Maximum of 2 Fibre Channel StorageShelf FC8 shelves, which are available in the following configurations: <p><b>Single power supply:</b>  3x18-GB drives (PN: X671B)  7x18-GB drives (PN: X672B)  Empty (PN: X650B)</p> <p><b>Redundant power supply:</b>  3x18-GB drives (PN: X673B)  7x18-GB drives (PN: X674B)  Empty (PN: X660B)</p>
<b>Fibre Channel StorageShelf FC9</b>	<b>9-GB Fibre Channel</b> (PN: X223) or <b>18-GB Fibre Channel</b> (PN: X221A or 221C): <ul style="list-style-type: none"> <li>• Maximum of 7 per shelf</li> <li>• Maximum of storage support is 252 GB total per C720</li> </ul>	AC power supply: 110/220V PN: SP-611A <p>DC power supply: 48V PN: SP-612A</p> <p>Two power supplies per shelf required.</p>	Fibre Channel StorageShelf FC9 shelves are available in the following configurations: <p><b>AC power supply:</b>  7x9-GB drives (PN: X685A)  7x18-GB drives (PN: X686A)  Empty (PN: X680)</p> <p><b>DC power supply:</b>  7x9-GB drives (PN: X685DC)  7x18-GB drives (PN: X686DC)  Empty (PN: X680DC)</p>

## NetCache C720 Appliance Storage Capacity Limits

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The maximum storage capacity of your appliance is determined by the number of disks the appliance supports and how the disks are used. The following table provides the number of disks you can use with your C720.

### Maximum capacity of the appliance

Data disk number and size		Maximum size (in GB) <sup>1</sup>
Quantity	Size (in GB)	
26	9 SCSI wide	234
28	9 FC-AL	252
14	18 FC-AL	252

<sup>1</sup> Each number is a multiple of the number of disks supported and the size of the disk. It does not indicate storage size.

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## NetCache C720 Appliance Expansion Slot Assignments

### **C720 Appliance Expansion Slot Assignment**

The C720 appliance has seven expansion slots and supports up to five network interfaces. In addition to its onboard single 10Base-T/100Base-T interface, the C720 appliance supports up to four additional network adapters.

**Note:** The types of network adapters supported include the first seven adapters listed in the table.

The following table lists the types of expansion adapters, part numbers, maximum number of each type of expansion adapter that you can install in the appliance, and slots in which you can install the adapters.

<b>Expansion adapters</b>	<b>PN.</b>	<b>Maximum number of adapters</b>	<b>Expansion slot<sup>1</sup></b>						
			1	2	3	6	7	8	9
Single-port 10Base-T/100Base-T	X1001B	3	X	X	X				
Single-port 10Base-T/100Base-T <sup>2</sup>	X1001C-S	3	X	X	X				
Quad-port 10Base-T/100Base-T	X1012B	3	X	X	X				
Quad-port 10Base-T/100Base-T <sup>2</sup>	X1012C-S	3	X	X	X				
FDDI-fiber, dual-attached	X1101	3	X	X	X				
FDDI-TP, single-attached	X1102	3	X	X	X				
FDDI-fiber, single-attached	X1105	3	X	X	X				
GbE <sup>3</sup>	X1025A	2				X	X	X	
GbE <sup>2, 3</sup>	X1025B-S	1				X	X	X	

Single-port 10Base-T/100Base-T (onboard)									
SCSI for disk shelves	X2022A	1						X	
SCSI for disk shelves	X2022B	1					X		
SCSI for tape <sup>4</sup> (onboard)									
Fibre Channel <sup>5</sup> (onboard)									
32-bit Fibre Channel <sup>5</sup>	X2030C	1			X				
NVRAM II									X

1 Expansion slots 4 and 5 are unavailable in a C720 appliance.

2 Use of these adapters requires NetCache 4.1 or later.

3 For optimum system performance, Network Appliance recommends that you install the first Gigabit adapter in the order of slot 8, slot 7, and slot 6. If slot 8 is occupied, then use slot 7; if both slot 8 and slot 7 are occupied, use slot 6.

4 Use of the onboard SCSI tape port in a C720 is not supported.

5 Use either the onboard Fibre Channel interface or the installed Fibre Channel adapter, not both. If your onboard FC-AL interface fails, terminate the interface and install the Fibre Channel adapter in slot 3 (Requires NetCache 4.1 or later).

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