



# Cisco 7200VXR Series and Network Processing Engine NPE-G2 Upgrade



At-A-Glance

Networks continue to evolve to meet the requirements of new applications, while maintaining the security of critical information and resources. The Cisco 7200 VXR Series with the high performance network processing engine NPE-G2 provides the performance and flexibility to meet these network requirements.

Customers who currently have a 7200VXR chassis can dramatically increase network performance and preserve their investment in chassis and line cards by upgrading to the NPE-G2.

Customers with non-VXR chassis can upgrade to a new 7200VXR chassis plus NPE-G2 using attractive trade-in credits. At the same time, customers can re-use their existing interface cards.

In addition to high performance, the Cisco 7200 VXR Series and NPE-G2 have a number of significant enhancements that provide compelling customer benefits.

## Top Ten Reasons to Upgrade to Cisco 7200VXR Series and NPE-G2

1. Offers superior price-to-performance as the most powerful single-processor platform
2. Scales to multiple concurrent applications across the WAN from headquarters to the branch offices
3. Provides highest VPN aggregation performance with the VPN Accelerator Module 2+ (SA-VAM2+) as well as even higher VPN performance with the VPN Services Adapter
4. Increases security from inside and outside the corporate network by utilizing the latest Cisco IOS® security features
5. Doubles the processing performance compared to the NPE-G1
6. Reduces costs with the three Gigabit Ethernet/Fast Ethernet ports on NPE-G2
7. Provides highest DRAM memory with standard 1 Gigabyte DRAM
8. Protects your investment by continuing to use existing port and service adapters and power supplies
9. Eliminates the need for a separate Input/Output controller as it is integrated into NPE-G2
10. Supports latest features through newer Cisco IOS releases that are supported on 7200VXR and NPE-G2 and extends the life support by replacing non-VXR chassis and older Network Processing Engines (NPEs) that are End-of-Life or approaching End-of-Life

**Table 1. 7200 VXR with NPE-G2: Higher Performance and Increased Connectivity**

Feature	NPE Prior to NPE-G1	NPE-G1	NPE-G2
<b>Integrated LAN Ports</b>	None	3 Gigabit Ethernet	3 Gigabit Ethernet plus 1 10/100 Ethernet Management port
<b>Separate I/O Controller Required</b>	Yes	No	No
<b>Chassis Supported</b>	Varies by NPE	All VXR chassis	All VXR Chassis
<b>Maximum DRAM Memory</b>	Up to 512 MB (NPE-400)	Up to 1 GB	2 GB
<b>Default DRAM Memory</b>	256 MB (NPE-400)	512 MB	1 GB
<b>Maximum Flash Memory</b>	128 MB (on I/O controller)	256 MB	256 MB
<b>Default Flash Memory</b>	64 MB (on I/O controller)	64 MB	256 MB

**Table 2. Migration Paths**

Existing Product	Upgrade Product
<b>Cisco 7204 Chassis (non-VXR)*</b>	CISCO7204VXR, CISCO7206VXR or a bundle listed in the table titled Cisco 7200 Series Bundles
<b>Cisco 7206 Chassis (non-VXR)*</b>	CISCO7206VXR or a bundle listed in the table titled Cisco 7200 Series Bundles
<b>NPE-100, NPE-150, NPE-175, NPE-200, NPE-225, NPE-300, NPE-400, NSE-1**</b>	NPE-G1 or NPE-G2
<b>NPE-G1</b>	NPE-G2

\* This product is end-of-sale.

\*\* NPE-100, NPE-150, NPE-175, NPE-200, NPE-225, NPE-300, NSE-1 are end-of-sale.

**Table 3. Cisco 7200 Series Bundles**

Solution Category	SKU	Description
<b>System</b>	7206VXR/NPE-G2	7206VXR with NPE-G2 includes 3GigE/FE/E Ports, AC power and Cisco IOS IP Plus Software; 256 M Flash, 1 GB DRAM.
<b>System</b>	7206VXR/NPE-G1	7206VXR with NPE-G1 (includes 3GigE/FE/E Ports), AC power, and Cisco IOS, IP PLUS Software; Default Memory: 64 MB Flash, 256 MB DRAM.
<b>System</b>	7206-IPV6/ADSVC/K9	Cisco 7206VXR IPv6 bundle with IOS Advanced Enterprise Services and NPE-G2
<b>System</b>	CISCO7201	Cisco 7201 Chassis, 1GB memory, Dual power supply and 256MB flash memory
<b>System</b>	7204VXR/400	7204VXR with NPE-400 and I/O Controller with 2FE/E Ports
<b>Security</b>	7206VXR/2/VSA/VPK9	7206VXR with NPE-G2, VSA, AC power, security device manager and advanced security software.
<b>Security</b>	7206VXR/2+/VPMK9	7206VXR, NPE-G2, VAM2+, jacket card (JC-PA), AC power, security device manager and advanced security software