

Cisco 7200 NSE-1 Network Services Engine

Figure 1 Cisco 7200 NSE-1 Services Accelerator



The Cisco 7200 NSE-1 (Figure 1) is a services accelerator for the Cisco 7200. The Cisco 7200 NSE-1 specializes in accelerating specific features and feature sets in order to maximize feature performance on the Cisco 7200.

Key Benefits

- Acceleration of specific services for maximum feature performance
- Acceleration of feature sets for applications such as leased-line aggregation and broadband aggregation

Cisco 7200 NSE-1 Accelerated Services

The following features are available for acceleration by the Cisco 7200 NSE-1 Services Accelerator:

Leased-Line Aggregation Features

- Turbo access control lists (ACLs)
- Network Address Translation (NAT)
- Cisco Express Forwarding (CEF)
- NetFlow
- Weighted Random Early Detection (WRED)
- Weighted Fair Queuing (WFQ)
- Class-Based WRED (CBWRED)

- Class-Based WFQ (CBWFQ)
- Committed access rate (CAR)
- Low-latency queuing (LLQ)
- Policing
- Marking
- Per-virtual circuit queuing
- 802.1Q
- Generic traffic shaping (GTS)
- MQC QoS (available soon)
- VRF (available soon)

Broadband Aggregation Features

- PPP over Ethernet (PPPoE)
- PPP over ATM (PPPoA)
- PPP over Ethernet over 802.1Q (PPPoEo802.1Q)
- Routed bridge encapsulation (RBE)
- Layer 2 Tunneling Protocol (L2TP)
- VRF (available soon)

Multiple features can be accelerated at the same time in order to maximum aggregate performance.

Cisco 7200 NSE-1 Services Accelerator Specifications

Table 1 Cisco 7200 NSE-1 Specifications

	Specifications	Applications
Cisco 7200 NSE-1	<ul style="list-style-type: none"> • 263-MHz RM7000 RISC processor • 100-MHz PXF processor • 256-KB Layer 2 cache • 2-MB Layer 3 cache • 128-MB SDRAM default expandable to 256 MB • Supported on Cisco 7200 VXR chassis • Error-Correcting Code (ECC) support 	<ul style="list-style-type: none"> • Leased-line aggregation • Broadband aggregation

Cisco IOS Software

The Cisco 7200 NSE-1 is supported by Cisco IOS® Software Releases 12.1(5)E, 12.1(5)T, and subsequent releases.

Orderability

Table 2 gives orderability information for the Cisco 7200 Series Network Services Engine.

Table 2 Orderability Information for Cisco 7200 Series Network Services Engine

NSE-1	Cisco 7200 Series Network Services Engine, NSE-1
NSE-1=	Cisco 7200 Series Network Services Engine, Cisco 7200 NSE-1 spare

The Cisco 7200 NSE-1 is currently orderable.

Further Assistance

For more information about the Cisco 7200 NSE-1, refer to:

<http://www.cisco.com/warp/public/cc/pd/ifaa/prossor/nse1/index.shtml>

For more information regarding the Cisco 7200 Series Internet Router, refer to:

<http://www.cisco.com/warp/public/cc/pd/rt/7200/index.shtml>



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