Cisco 7201 Router

PB401678

The Cisco® 7201 Router (Figure 1) is the latest generation of the Cisco 7200 Series portfolio. It is a compact, high-performance 1-rack-unit (1RU) router that uses the latest Cisco 7200VXR Series Network Processing Engine NPE-G2 coupled with a comprehensive range of interface options.

The Cisco 7201 Router addresses the demand for the same performance enhancements and Cisco IOS® Software features of the latest Cisco 7200VXR NPE-G2 but in a smaller form factor and with low power consumption. It provides four built-in Gigabit Ethernet ports and one port adapter slot, making it ideal for various service providers and enterprise applications. It also offers redundant and field-replaceable AC and DC power supplies.

Figure 1.   Cisco 7201 Router

Table 1 lists the features of the Cisco 7201 Router.

Table 1.   Features of Cisco 7201 Router

Feature	Description
Performance of up to 2 million packets per second (pps) in Cisco Express Forwarding switching	• Doubles the performance compared to that of Cisco 7301 Router • Dramatically increases the performance and scalability in broadband, WAN, and metropolitan-area network (MAN) applications for both enterprises and service providers
Backward compatibility with existing port adapters (with a few exceptions)	• Maximizes investment protection and flexibility by allowing customers to use existing port adapters, also simplifying sparing **Note:** Only a few end-of-sale port adapters are not supported with the Cisco 7201. Please refer to the Cisco 7201 data sheet for more information.
Four fixed Gigabit Ethernet ports (2 Small Form-Factor Pluggable [SFP]-only ports, 2 SFP or 10/100/1000 RJ-45 ports)	• Maximizes LAN connectivity and performance • Eliminates the need to use the port adapter slot for extra Gigabit Ethernet or Fast Ethernet ports and frees the port adapter slot.
Dual field-replaceable AC or DC power supplies with Field-Replaceable Unit (FRU) Capability	• Offers high reliability and flexibility

1 GB of DRAM default memory	• Delivers the most memory by default compared to existing Cisco 7301, offering the following benefits:
	  ◦ Supports more routes and routing tables
	  ◦ Supports more Multiprotocol Label Switching (MPLS) virtual routing and forwarding (VRF) instances
	  ◦ Supports more sessions for broadband aggregation
	  ◦ Helps enable higher scalability on features such as NetFlow, Network Address Translation (NAT), access control lists (ACLs), and more
	  ◦ Supports optional upgrade to 2-GB DRAM

Cisco IOS Software	• Supports a wide range of IP and non-IP network services, including quality of service (QoS), MPLS, broadband aggregation, integrated security, encryption, voice, and more
Dedicated management for 10/100-Mbps Ethernet	• Reduces costs and protects chassis port density
One USB port	• Provides a large, removable storage for files • Stores security e-tokens for VPN applications • Supports the 32-kilobit Aladdin Token key for VPN applications
Digital diagnostics on SFP interfaces	• Provides a powerful tool that monitors many manageable parameters, including optical transmit and receive power, voltage and temperature measurement, and factory parameters
Time Domain Reflectometry (TDR) on copper interfaces	• Provides an effective method of isolating fault at the remote end of the copper wire by monitoring reflected pulsed signals
Front-to-back airflow	• Allows you to mount the router from either front or back

New Features

With the introduction of the Cisco 7201 Router, the following is offered (refer to Table 1 for details):

- Provides double the performance compared to the Cisco 7301 1RU router—up to 2 million pps in Cisco Express Forwarding switching
- Provides four native Gigabit Ethernet (GE) interfaces—six physical access ports:
  - Four fixed GE ports are available on the Cisco 7201. The first two ports provide either RJ45 copper or SFP optical connectivity; the other two ports provide only SFP optical connectivity because of space constraint. The first two ports can also be configured as 10/100Mbps (Ethernet/FE) when RJ45 copper interface is used.
- Provides one dedicated 10-/100-Mbps copper Ethernet port for management
- Offers dual field-replaceable AC or DC power supplies
- Provides one USB port for general storage and security token storage
- Offers 1 GB of DRAM memory by default, with optional upgrade to 2-GB synchronous dynamic RAM (SDRAM)
- Offers backward compatibility with existing port adapters (with a few exceptions)
- Offers greatly improved price/performance ratio

Upgrade Paths

The Cisco 7201 Router is part of the Cisco Technology Migration Program (TMP). Customers are encouraged to review their networking requirements and to use the TMP to upgrade from an older 1RU platform such as the Cisco 7401 Application Specific Router or the current Cisco 7301 Router.

Refer to http://www.cisco.com/go/TMP and contact your local Cisco account representative related to the TMP for more information.

Availability

The Cisco 7201 Router will initially be supported in a special Cisco IOS Software Release 12.4XD and in Release 12.2(31)SB5. Later, support will be available in 12.4(6th)T and 12.5 Mainline releases.

Ordering Information

To place an order, visit the Cisco Ordering Home Page at https://tools.cisco.com/qtc/order/IPCLoginServlet?session=11703920234832153320312539O and refer to Table 2. Please note this URL requires a Cisco.com ID.

To download software, visit the Cisco Software Center http://www.cisco.com/kobayashi/sw-center/.

Table 2.   Ordering Information for Cisco 7201 Router

Product Name	Part Number
Cisco 7201 Router base system—Chassis, 1GB Memory, Dual power supplies by default (you have choice between Dual AC or Dual DC) and 256MB Flash	CISCO7201
Cisco 7201 AC Power Supply option	PWR-7201-AC
Cisco 7201 AC Power Supply option—Spare	PWR-7201-AC=
Cisco 7201 DC48 Power Supply Option	PWR-7201-DC
Cisco 7201 DC48 Power Supply Option—Spare	PWR-7201-DC=
Cisco 7201 Series 1GB Memory System	MEM-7201-1GB
Cisco 7201 Series 1GB Memory Spare	MEM-7201-1GB=
Cisco 7201 Series 2GB Memory System	MEM-7201-2GB
Cisco 7201 Series 2GB Memory Spare	MEM-7201-2GB=
Cisco 7201 Compact Flash Disk, 256 MB System	MEM-7201-FLD256
Cisco 7201 Compact Flash Disk, 256 MB Spare	MEM-7201-FLD256=
64-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series	MEMUSB-64FT
64-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series—Spare	MEMUSB-64FT=
128-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series	MEMUSB-128FT
128-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series—Spare	MEMUSB-128FT=
256-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series	MEMUSB-256FT
256-MB USB flash token for Cisco 1800, 2800, 3800, and 7200 series—Spare	MEMUSB-256FT=
Cisco 1000BASE-SX SFP (DOM)	SFP-GE-S
Cisco 1000BASE-SX SFP (DOM)—Spare	SFP-GE-S=
Cisco 1000BASE-LX/LH SFP (DOM)	SFP-GE-L
Cisco 1000BASE-LX/LH SFP (DOM)—Spare	SFP-GE-L=
Cisco 1000BASE-ZX Gigabit Ethernet SFP (DOM)	SFP-GE-Z
Cisco 1000BASE-ZX Gigabit Ethernet SFP (DOM)—Spare	SFP-GE-Z=
Cisco 1000BASE-T SFP (NEBS 3ESD)	SFP-GE-T
Cisco 1000BASE-T SFP (NEBS 3ESD)—Spare	SFP-GE-T=
Rack Mount KIT for Cisco 7201	RCKMNT-7201
Rack Mount KIT for Cisco 7201 Spare	RCKMNT-7201=

For More Information

For more information about the Cisco 7201 Router, please visit http://www.cisco.com/go/7200 or contact your local Cisco account representative.

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