

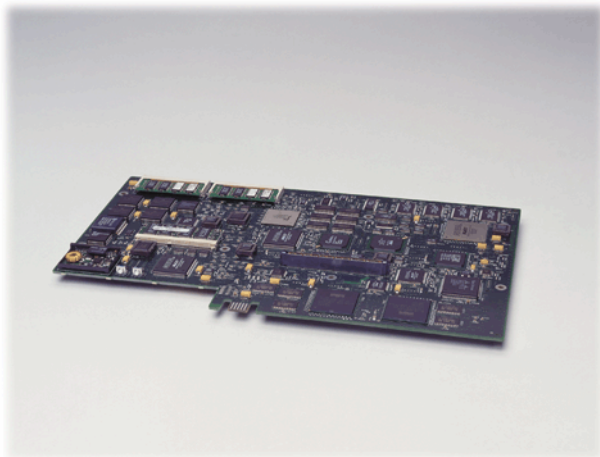
Catalyst 5000 Family **Route Switch Feature Card**

The Route Switch Feature Card (RSFC) provides the performance, scalability, and sophisticated multiprotocol capabilities of Cisco IOS® software integrated into the award-winning Catalyst 5000 Family of switches. The RSFC provides Layer 3 routing functionality on an integrated daughter card option for the Catalyst 5000 Family wiring closet supervisors, Supervisor II G and Supervisor III G.

Cost Effective Performance

The RSFC daughter module provides cost-effective, high-performance, multilayer switching and routing services between switched Virtual LANs (VLANs), or Emulated LANs (ELANs) within an ATM fabric. The RSFC is an IOS router in a compact package, enabling a single-slot Layer 3 switching engine for the Catalyst 5000 Family, when coupled with the Supervisor II G and Supervisor III G.

Figure 1 The RSFC Enables Full Multiprotocol Routing in Supervisor II G and III G



Multiprotocol Switching with Cisco IOS Software

The Cisco Catalyst 5000 Family RSFC builds upon the Route Switch Processor (RSP) featured in the Cisco 7200 multiprotocol routing platform. It combines the proven Cisco IOS software technology with the exceptional performance features of the Catalyst 5000 Family of LAN switches to meet the requirements of today's mission-critical networks. The RSFC delivers a broad array of Cisco IOS software services, including a wide set of protocols: IP, IPX, AppleTalk, DECnet, VINES, XNS, as well as:

- Multimedia services—Protocol-Independent Multicast (PIM) and Cisco Group Management Protocol (CGMP)
- Security services—access lists, encryption, lock and key
- Class of Service (CoS) enablers—Resource Reservation Protocol (RSVP), and Weighted Fair Queuing (WFQ)

NetFlow Switching Delivers High-Performance Layer 3 Network Services

The RSFC is designed with NetFlow Switching capability, which provides “per-flow” switching between VLANs or subnets. NetFlow Switching enables today’s networks to perform more network services on a larger scale and at higher bandwidths. NetFlow Switching provides the following benefits:

- High Performance—NetFlow switching provides low-latency, high-throughput Layer 3 switching performance scaling to more than 1 Mpps while providing sophisticated network services such as per-flow statistics, security screening and accounting information.
- Security services—NetFlow Switching provides robust security screening while dramatically reducing the overhead required for security processing.
- CoS—Based on the RSVP, which enables applications to request a specific CoS and advanced queuing techniques such as WFQ, the RSM supports these CoS guarantees.
- Flow management—NetFlow Switching generates detailed information on each flow or session as a readily accessible by-product of its basic switching function. This detail includes packet and byte counts, duration, and timestamps.

Features

- The RSFC provides Cisco IOS feature-set combinations ranging from IP to the full Cisco IOS enterprise suite. In addition, the RSFC provides multimedia services such as CGMP and PIM, security services such as access lists and encryption, and CoS enablers such as RSVP and WFQ.
- NetFlow Switching provides per-flow switching between subnets and network services on a larger scale and at higher bandwidths. NetFlow Switching also provides high-performance, low-latency switching and:
 - Security services
 - CoS enablers
 - Flow management

- A single RSFC can be inserted into either Supervisor II G or Supervisor III G. RSFC redundancy is achieved by deploying redundant RSFC equipped supervisors.
- Web browser support provides a graphical navigational tool through the command-line interface (CLI) and allows the user to display status and gather statistical data through a point-and-click interface.

Catalyst 5000 RSFC Specifications

Physical Specifications

- Installs as daughter card module on Supervisor II G or Supervisor III G
- Dimensions (H x W x D): .6 x 14.2 x 8.7 in. (1.5 x 36.1 x 22.1 cm)

Environmental Conditions

- Operating temperature: 32 to 104 F (0 to 40 C)
- Storage temperature: -40 to 167 F (-40 to 75 C)
- Relative humidity: 10 to 90%, noncondensing

Agency Approvals

- UL 1950
- CSA-C22.2 No. 950-93
- EN 60950
- IEC 950
- AS/NZS 3260
- TS 001
- FCC Class A (Part 15)
- CE Marking
- VCCI Class B
- EN55022 Class B
- CISPR22 Class B
- AS/NZS 3548 Class B

CPU and Memory

- R4700 150-MHz processor
- 128-MB DRAM system memory
- 32-MB Flash memory
- 2-MB high-speed packet memory
- 6-MB high-speed RAM—Catalyst switching bus interface.



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