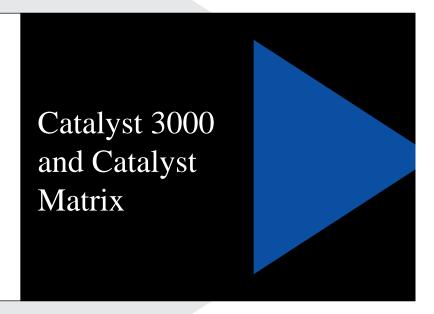
Data Sheet

Stackable Switching Platform delivers layer 2 and virtual LAN switching for growing workgroup applications.

Catalyst 3000 Highlights

- Performance: Features wire speed performance (media rate for 24 Ethernet segments) with low-latency using adaptive cutthrough switching technology
- Expandability: Two optional module links per device provide additional interfaces for low- or high-speed expansion, including up to eight switched Ethernet or two Fast Ethernet, VG, or ATM ports. Optional Stack Port module provides 280-Mbps "pipe" to connect two Catalyst™ 3000s. Optional Catalyst Matrix supports up to 192 Ethernet, 16 Fast Ethernet, or 16 ATM interfaces (links up to eight Catalyst 3000s).
- Cisco IOS for Workgroup Stack: The Catalyst 3000's software
 architecture delivers "plug-and-play" manageable stackable
 switching. The distributed stacking software automatically reconfigures switch parameters whenever Catalyst 3000s are added or
 removed. Switch reconfigurations are also automatically reported
 to network management applications which manage the stack as
 single logical entity.
- Cisco IOS/VLAN: Offers Cisco Internetwork Operating System (Cisco IOS") software and virtual LAN (VLAN) support, both intra- and interswitch. Supports a total of 64 VLANs; includes external traffic monitoring capability that allows network managers to monitor traffic within and between VLANs
- End-to-end network management offerings: Includes integrated device, VLAN, and traffic management with Simple Network Management Protocol (SNMP), 802.1d spanning-tree, filtering options, SPAN, and Cisco management applications support.





Catalyst 3000 Applications

The Catalyst 3000 cost-effectively addresses small workgroup switching applications but has the flexibility of built-in switch stackability to accommodate large-scale applications as well. Applications include:

Scalability for Growing Workgroups

In smaller configurations, the Catalyst 3000 can connect from 16 to 24 Ethernet segments with up to two high-speed Fast Ethernet or ATM uplinks connecting servers or routed backbone resources. The Catalyst 3000 can also be used as a wiring closet switch, supporting up to 192 ports feeding workgroup traffic into Catalyst 5000 multi-layer-capable switches or Cisco's LightStream* series ATM switches. By using the Catalyst 3000's stacking capability through the Catalyst Matrix, network managers can increase switching capacity as needed for bandwidth and dedicated connectivity

growth. Correct configuration and packet receipt are ensured without console reconfiguration as the Catalyst 3000 stack is increased.

By employing the CiscoWorks^w and CiscoView^w management tools, network managers can provide network manageability of an entire enterprise network, from home office to branch office.

Switched VLAN Feeder

The Catalyst 3000 can provide effective LAN capabilities as well segregate workgroup traffic across the switched internetwork. Using the Future InterSwitch Link (ISL) protocol, the Catalyst 3000 can trunk over 1000 configurable VLANs across the switched inter-



network. Similarly, the Catalyst 3000 will employ ATM LAN Emulation (LANE) for switched workgroup traffic across ATM platforms.

Features and Benefits

- Exceptional throughput and low-latency for applications that demand high-performance, wire-speed switching supports up to 192 (with Catalyst Matrix) Ethernet ports with only 40 microsecond latency between ports. Features error-free, cut-through switching. Combines the low-latency of cut-through switching with the data-checking capabilities of store-and-forward switching in one device.
- Extensive traffic/network management features
 - Entire stack formed with Catalyst Matrix can be managed as one entity, simplifying use and minimizing reconfigurations and troubleshooting
 - Supports the Ethernet MIB, allowing users to characterize each port's broadcast packets, collisions, octets, utilization, and other key statistics
 - Supports up to 64 internal VLANs for easy creation and maintenance of multiple broadcast domains
 - Catalyst Switch Probe Analyzer (SPAN) port allows users to connect network analyzer or Cisco remote monitoring (RMON) probe to Catalyst 3000 to simplify collection of switch port statistics
 - Filtering database supports up to 10,000 stations; database is automatically aged and updated
 - Supports IEEE 802.1d spanning-tree for network loop detection and disabling (particularly useful in larger networks) and for fault-tolerant connectivity
 - Supports Telnet, remote dial-up modem, out-of-band administrative interface. New software releases can be downloaded either locally or over the network
 - Cisco Discovery Protocol (CDP) support, allowing devices to discover other Cisco devices on the network. This aids in efficient construction of VLANs across the internetwork
 - Provides CiscoView GUI-based comprehensive network management support, allowing easy point-and-click discovery of device status, statistics, and comprehensive perport configuration and performance information

- · Ease of use
 - Variety of connectors and media types allows the Catalyst 3000 to be used in a variety of network topologies and cabling plants
 - Media types and connectors include: 100BaseTX (RJ-45);
 ATM (SC); 10BaseFL (ST); 100BaseFX (ST); 10BaseT (RJ-45);
 VGAnyLan (RJ-45)
 - Power-up diagnostics to aid troubleshooting
 - FLASH PROM for easy installation of new software features as they become available

Specifications

- · Network Management Support
 - Telnet
 - SNMP MIB II (RFC 1213)
 - Bridging MIB (RFC 1493)
 - 802.1D spanning-tree MIB
 - Ethernet MIB
 - CiscoView
- · Buffers and Addressing
 - Buffers: 192 KB per 10 Mbps port; 256 KB per 100 Mbps port
 - Addresses: 1700/port, 6000/system (10,000 optional)
- Dimensions
 - Catalyst 3000: height: 3.5 in (8.76 cm), width: 17 in (43 cm), depth:
 13.4 in (34 cm), weight: 17 lbs. (7.7 kg)
 - Catalyst Matrix: height: 3.5 in (8.76 cm), width: 17 in (43 cm), depth: 13.4 in (34 cm), weight: 14 lbs. (6.35 kg)
- · Environmental Conditions
 - Operating temperature: (10 to 40°C)
 - Storage temperature: $(-25^{\circ} \text{ to } 75^{\circ}\text{C})$
 - Relative humidity: Operating 8% to 80%, noncondensing
 - Storage altitude: 40,000 ft.
 - Power: 90 to 264 VAC autosensing
 - Frequency: 47 to 63 Hz
 - AC current rating: 1.5 A @ 120v; .75A @220V
- · Safety Certifications
 - UL 1950
 - UL-C
 - EN 60950
- · Electromagnetic Emissions Certifications
 - FCC Class A (Part 15)
 - EN 55022 A
 - VCCI Class 1

Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
World Wide Web: TRL;
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100
European Headquarters
Cisco Systems Europe s.a.r.l.
Z.A. de Courtaboeuf
16 ayanya du Oyahaa

European Headquarters Cisco Systems Europe s.a.r.l. Z.A. de Courtaboeuf 16 avenue du Quebec 91961 Les Ulis Cedex France Tel: 33 1 6918 61 00 Fax: 33 1 6928 83 26

European Offices Austria Tel: 43 1 71110 6233 Fax: 43 1 71110 6017 Belgium
Tel: 32 2 778 42 00
Fax: 32 2 778 43 00
Denmark
Tel: 45 33 37 71 57
Fax: 45 33 37 71 53
Germany
Tel: 49 89 32 15070
Fax: 49 89 32 150710

Tel: 39 2 269 290 85 Fax: 39 2 269 290 06 The Netherlands Tel: 31 18 30 22988 Fax: 31 18 30 22404 Norway Tel: 47 22 83 06 31 Fax: 47 22 83 22 12

South Africa Tel: 27 11 784 0414 Fax: 27 11 784 0519 Spain Tel: 34 1 383 2178 24 1 383 8008 Sweden
Tel: 46 8 681 41 60
Fax: 46 8 19 04 24
Switzerland
Tel: 41 1 905 20 50
Fax: 41 1 941 50 60

Fax: 41 1 941 50 60 United Arab Emirates Tel: 971 4 310 433 Fax: 971 4 313 681 United Kingdom Tel: 44 81 818 1400 Fax: 44 81 893 2824

Intercontinental and Latin American Headquarters Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA Tel: 408 526-7660 Asia Hong Kong Tel: 852 2583 9110 Fax: 852 2824 9528 Beijing Tel: 86 1 501 8888 x821

Fax: 86 1 501 4531 India Tel: 91 11 688 1234 Fax: 91 11 688 6833 Korea Tel: 82 2 3453 0850 Fax: 82 2 3453 0851

Malaysia Tel: 60 3 202 1122 Fax: 60 3 202 1822 Singapore Tel: 65 320 8398 Fax: 65 320 8307

Fax: 65 320 8307 Taipei, Taiwan Tel: 886 2 577 4352 Fax: 886 2 577 0248 Thailand Tel: 66 2 231 8300 Fax: 66 2 231 8121

Regional Offices Argentina Tel: 54 1 814 1391 Fax: 54 1 814 1846 Australia Tel: 61 2 9935 4200

Fax: 61 2 9957 4077 Brazil Tel: 55 11 822-5413 Tel/Fax: 55 11 822-6095 Mexico Tel: 525 328 7600 Fax: 525 328 7699

Fax: 525 328 7699 New Zealand Tel: 64 9 358 3776 Fax: 64 9 358 4442 Japanese Headquarters Nihon Cisco Systems K.K. Seito Kaikan 4F 5, Sanbancho, Chiyoda-ku Tokyo 102, Japan Tel: 81 3 5211 2800 Fax: 81 3 5211 2810

Canada Tel: 416 217-8000 Fax: 416 217-8099

Cisco Systems has over 120 sales offices worldwide. Call the company's corporate headquarters (California, USA) at 408 526-4000 to contact your local account representative or, in North America, call 800 553-RETS (6387).