



Cisco Catalyst 2950 Series Intelligent Ethernet Switches

This affordable line of stackable and standalone Intelligent Ethernet switches brings intelligence to the network edge — while maintaining the simplicity of traditional LAN switching.

Cisco Catalyst® 2950 Series Intelligent Ethernet switches make it easy to extend intelligent services across the entire network, for increased availability, security, and quality of service (QoS).

These fixed-configuration switches are designed to provide a midsize network with wire-speed Fast Ethernet and Gigabit Ethernet connectivity, while supporting intelligent services such as advanced QoS, rate limiting, security filters, and multicast management at the network edge.

When paired with a Cisco Catalyst 3550 Series Switch, Cisco Catalyst 2950 Series Intelligent Ethernet switches enable high-performance IP routing from the edge to the core of the network.

Product Benefits

High Availability

Increase network uptime and employee productivity with rapid failover recovery, Layer 2 load balancing, bandwidth aggregation, and other capabilities that optimize performance and reliability.

Enhanced Security

Mitigate concerns with advanced authentication and filtering features, which forward or drop packets based on source, destination, or application.

Advanced Quality of Service

Increase network efficiency and ensure urgent needs are met by expediting time-sensitive applications such as IP voice and video — without starving low-priority packets — and providing control over the amount of bandwidth across any configured interface.

Cisco Catalyst 2950 Series Configurations

Product	Features	Placement
Cisco Catalyst 2950G-48	Wire-speed stackable switching with 48 10/100 ports and 2 gigabit interface converter (GBIC)-based Gigabit Ethernet ports; 1 rack unit (RU)	Ideal for advanced desktop connectivity
Cisco Catalyst 2950G-24	Wire-speed stackable switching with 24 10/100 ports and 2 GBIC ports; 1 RU	Ideal for advanced desktop connectivity
Cisco Catalyst 2950G-24-DC	Wire-speed stackable switching with 24 10/100 ports, 2 GBIC ports, and DC power; 1 RU	Ideal for advanced desktop connectivity and telco/DCN environments
Cisco Catalyst 2950G-12	Wire-speed stackable switching with 12 10/100 ports and 2 GBIC ports; 1 RU	Ideal for advanced desktop connectivity
Cisco Catalyst 2950T-24	Wire-speed standalone switching with 24 10/100 ports and 2 fixed 10/100/1000BASE-T uplink ports; 1 RU	Ideal for gigabit migration over copper backbones
Cisco Catalyst 2950C-24	Wire-speed standalone switching with 24 10/100 ports and 2 fixed 100BASE-FX uplink ports; 1 RU	Ideal for advanced desktop connectivity over fiber

High Availability Ensures employees can access data at all times, locally and remotely.

Redundancy

- Cisco Spanning-Tree Protocol enhancements such as BackboneFast/UplinkFast/PortFast and CrossStack UplinkFast
- Support for the 300W Cisco redundant power supply system 300 (optional)

Management

- Award-winning Cisco Cluster Management Suite Software now enhanced to include video/voice configuration templates/wizards
- Dynamic Trunking Protocol (DTP) for dynamic virtual LAN (VLAN) trunk configuration
- Port Aggregation Protocol (PAgP) for automatic creation of Cisco Fast EtherChannel® and Gigabit EtherChannel port groups

- Dynamic VLANs Membership Policy Server (VMPS)-client only-assignment provides flexibility in assigning ports

Bandwidth Optimization

- Bandwidth aggregation via Fast EtherChannel® and Gigabit EtherChannel technology
- Layer 2 load balancing on redundant links via Per-VLAN Spanning-Tree Plus (PVST+)
- Multicast application management via Internet Group Management Protocol (IGMP) snooping

Enhanced Security Protects sensitive data and network resources from threats.

- Filtering incoming traffic flows based on Layer 2/3/4 access control parameters and permit/deny
- 802.1x support for dynamic port-based security

- Private VLAN edge provides security and isolation between ports on a switch
- Support for Media Access control (MAC)-based port-level security

- Spanning-Tree root guard (STRG) prevents unauthorized devices from becoming root notes

Advanced Quality of Service Prioritizes critical traffic and applications to avoid bottlenecks.

- Traffic classification, policing/metering and marking based on Layer 2/3/4 parameters on a per-port basis at ingress

- Rate limiting via policers at ingress
- 802.1p class of service (CoS) and Differentiated Services Code Point (DSCP) classification and reclassification

- 4 queues per egress port
- Weighted Round Robin (WRR) and Strict Priority Scheduling for egress queue servicing

Intelligence Made Easy

Cisco Cluster Management Suite (CMS) Software simplifies repetitive and time-consuming network management tasks, saving tremendous time and resources in deploying intelligence at the edge.

Cisco CMS Software allows users to configure, troubleshoot, and perform software upgrades on up to 16 Cisco Catalyst switches at once, regardless of their geographic proximity, using

a standard web browser. It features wizards that automatically configure voice, video, and high-priority data ports, topology maps for a comprehensive layout of all clustered switches, link graphs and reports for real-time traffic updates, and configuration templates and guide modes to minimize training.

To make things easy right from the start, Cisco CMS Software is embedded in the switch — no installation required.

For more information

www.cisco.com/asiapac/smb_solutions



Cisco Systems has more than 200 offices. Addresses, phone numbers, and fax numbers are listed on the Cisco.com Web site at www.cisco.com/go/offices.