

Cisco POTS Splitter for Catalyst Long-Reach Ethernet Switches

The Cisco Long-Reach Ethernet solution meets the demands of high bandwidth applications while leveraging existing copper wiring infrastructures. Catalyst® 2950 Long-Reach Ethernet (LRE) Series switches enable enterprise and service provider customers to extend intelligent Ethernet services over existing phone and legacy wiring, at distances of up to 5000 feet. Cisco is the only company with the breadth of technologies that allow customers to deliver intelligent network services across any combination of wired and wireless infrastructures.

The Cisco Catalyst 2950 LRE solution delivers cost-effective, high-performance broadband access to enterprise campus environments and multi-tenant buildings (such as, hotels, apartment buildings, and office buildings). The Cisco LRE technology dramatically extends the reach of Ethernet up to 5,000 feet over existing Category 1/2/3 wiring at speeds from 2 to 15 Mbps symmetric. LRE co-exists on the same medium as Plain Old Telephone Service (POTS), digital telephone, and ISDN traffic, and co-exists with asymmetric digital subscriber line (ADSL) in the same wire bundle, allowing service providers to provision LRE to buildings where broadband services already exist.

Enterprise

The Catalyst 2950 LRE enables enterprises to deploy productivity enhancing applications across their entire network while avoiding the costs of rewiring. Based on the market leading Catalyst 2950 Series, the 2950 LRE is a familiar product for existing Cisco customers and allows networks to reach areas previously not feasible due to wiring or distance limitations.

Metro Access

Ideal for metro Ethernet access in residential and small-office, home-office (SOHO) markets, the Catalyst 2950 LRE switches extend intelligence to the metro access edge, enabling service breadth, availability, security, and manageability while leveraging the existing in-building wiring. Featuring advanced rate limiting, voice virtual LAN (VLAN) support, and multicast management, these switches enable a variety of residential metro services such as Internet access, voice over IP (VoIP), and broadcast video.

Hospitality

The Catalyst 2950 LRE broadband networking solution enables hoteliers to deliver secure high-speed Internet access to guest and conference rooms to attract and retain business travelers. By deploying the Cisco LRE solution, hotel owners can future proof their buildings for a wide range of applications that will ensure operational efficiency and customer loyalty for years to come while avoiding the costs of rewiring.



Product Overview

The Cisco 2950 LRE solution includes the Cisco Catalyst 2950 LRE switches, the Cisco 575 and 585 LRE Customer Premise Equipment (CPE) devices, and the Cisco LRE POTS Splitter. Each LRE link is terminated with either the Cisco 575 or 585 LRE CPEs, and a POTS splitter is required when POTS traffic coexists with the LRE link over the same line. The Cisco LRE POTS Splitter is fully compatible with the Catalyst 2900 LRE XL and Catalyst 2950 LRE Series switches. Please refer to the Cisco Catalyst 2950 LRE, Cisco Catalyst 2900 LRE XL and Cisco LRE CPE data sheets for more information.

The Cisco LRE POTS Splitter is a high-density, low-cost device that is ideal for building deployments where the PBX system is on-site and POTS traffic must coexist over the same copper wiring as LRE traffic. The Cisco LRE POTS Splitter enables the coexistence of LRE and POTS on the same telephone line. Unlike “splitterless” building broadband network solutions, the Cisco LRE POTS Splitter ships as a separate, compact form factor to ensure that POTS service is separate, and never compromised by LRE switch reconfigurations or downtime.

The Cisco LRE POTS Splitter supports 48 ports in a one RU form factor. Each splitter has six RJ-21 connectors—two each for connectivity to the patch panel, the LRE switches, and the on-site PBX system. The LRE POTS Splitter is a passive device so it does not need a power supply or fans or software.

Figure 1 Cisco LRE POTS Splitter



Product Specifications

(See separate Cisco Catalyst 2950 LRE, Cisco Catalyst 2900 LRE XL and Cisco LRE CPE data sheets for Catalyst 2950ST-24-LRE, Catalyst 2950ST-8-LRE, Catalyst 2924-LRE-XL, Catalyst 2912-LRE-XL, Cisco 575 LRE CPE, and Cisco 585 LRE CPE product specifications.)

Feature	Description
Performance	<ul style="list-style-type: none">• Pass band filter at 700 kHz to support POTS, ISDN, ADSL, and some digital phones
Connectors and Cabling	<ul style="list-style-type: none">• Six RJ-21 connectors: Two each for connectivity to the patch panel, LRE switches, and the PBX system.
Dimensions and Weight (H x W x D)	<ul style="list-style-type: none">• 1.72 x 17.5 x 13.5 in. (4.36 x 44.5 x 34.3 cm)• 1.0 rack-unit high for 48 ports• 9 lb (4.1 kg)

Feature	Description
Environmental Ranges	<ul style="list-style-type: none"> • Operating temperature: 32° to 113°F (0° to 45°C) • Storage temperature: -13° to 158°F (-25° to 70°C) • Operating relative humidity: 10 to 85% (non-condensing) • Operating altitude: Up to 10,000 ft (3,000 m) • Storage altitude: Up to 15,000 ft (4,570 m)
Regulatory Agency Approvals	
Electromagnetic Compatibility Certifications	<ul style="list-style-type: none"> • FCC Part 15 Class A • EN 55022B (CISPR 22 Class A) • VCCI Class I • CE Mark • BSMI

Ordering Information

Model Numbers	Configuration
PS-1M-LRE-48	• Cisco LRE POTS Splitter: Six RJ-21 ports for 48 ports

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