

## Access Control List Daughter Cards for the Catalyst 8510/LightStream 1010 Platforms

THE ACCESS CONTROL LIST (ACL) DAUGHTER CARDS FOR THE CATALYST® 8510/LIGHTSTREAM 1010 ARE IDEAL FOR SUPPORTING HIGH-SPEED LAYER-3 GIGABIT BACKBONE APPLICATIONS THAT REQUIRE LAYER 3 SECURITY CAPABILITIES. THE ACL DAUGHTER CARDS ARE SUPPORTED BY THE CATALYST 8510/LIGHTSTREAM® 1010 PLATFORMS, PROVIDING LARGE ENTERPRISES AND SERVICE PROVIDERS WITH BOTH LAYER 3 AND ATM SWITCHING IN ONE INTEGRATED PLATFORM.

### Benefits

The access control list (ACL) daughter cards implement data-plane access lists in hardware, providing line-rate and near-line-rate performance. This extends the traffic control and security capabilities of the Catalyst 8510/LightStream 1010 beyond control-plane access lists, which are currently supported.

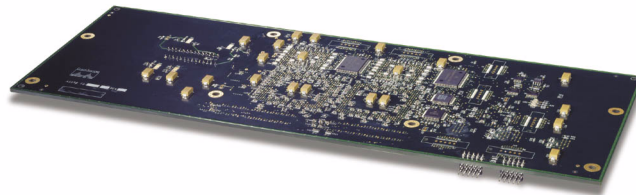
The ACL daughter cards can be used with existing 10/100-Base-TX, 100-Base-FX, and Gigabit Ethernet interface modules on the Catalyst 8510/LightStream 1010. The daughter cards will provide data-plane ACL functionality for both IP and IPX traffic.

### Feature Support

The Catalyst 8510 supports control-plane access lists such as: permit/deny IP/IPX routes and IPX Service Advertisement Protocol (SAP) filtering without the daughter card. The new daughter card enables data-plane ACLs for IP and IPX traffic. Listed below are the ACL features supported. For more details about specific features please see the release notes.

### ACL Daughter Card Features Supported

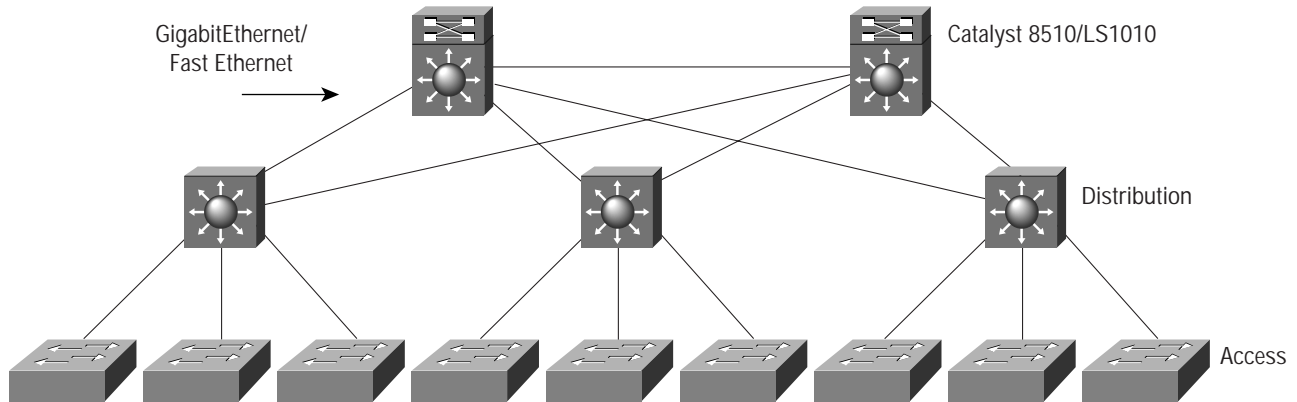
- Standard/extended IP access lists (1–99; 1301–1999/100–199; 2000–2699) in hardware; both inbound and outbound
- Named access lists
- Standard IPX access lists (800–899) without source node; both inbound and outbound
- All Cisco IOS® ACLs for control-plane traffic



### Applications

The ACL daughter card can be used to limit/grant access to certain network resources by filtering traffic based on the Layer 3 header. It is designed specifically to meet the demanding needs of large enterprise and service provider networks. Figure 1 on the page 2 shows the Catalyst 8510/Lightstream 1010 in an enterprise core network.

Figure 1 Enterprise Core Network



## Specifications

### Physical Specification

- Occupies one slot in the Catalyst 8510/LightStream 1010 platform
- Dimensions (H x W x D): 1.2 x 14.4 x 16.0 in. (3.0 x 36.6 x 40.6 cm)

### Safety Compliance

Catalyst 8510/LightStream 1010 ACL daughter cards, when installed in a system, comply with the following compliance and safety standards:

- UL 1950
- CSA C22.2 No.950
- EN 60825-1
- EN60950
- IEC 950
- IEC 60825-1
- TS 001
- CE marking
- AS/NZS 3260
- 21CFR1040
- Network Equipment Building Systems (NEBS) Level 3

### EMC Compliance

Catalyst 8510/LightStream 1010 ACL daughter cards, when installed in a system, comply with the following EMI standards:

- FCC Part 15 (CFR 47) Class A
- VCCI Class B
- EN55022 Class B
- CISPR 22 Class B
- CE marking
- AS/NZS 3548 Class B

### Network Management

- CiscoWorks
- Simple Network Management Protocol (SNMP)
- Gigabit Ethernet Management Information Base (MIB)
- ETHERLIKE-MIB (RFC 1643)
- IF-MIB (RFC 1573)
- MIB II (RFC1213)

## Ordering Information

Table 1 Required Software

Platform	Software Release	Product Code
Catalyst 8510 CSR	12.0(10)W5(18)	S851R3-12.0.10W or higher
Catalyst 8510 MSR	12.0(10)W5(18)	S851R2-12.0.10W or higher
LightStream 1010	12.0(10)W5(18)	SL10R2-12.0.10W or higher

Table 2 Product Availability and Part Numbers

Part Number	Product Description	Availability
C8510-ACL=	C8510 ACL Daughter Card (spare)	Q2CY00

Note: The ACL daughter card can be used with the layer 3 line cards listed in Table 3S.

Table 3 Compatible Interface Modules

Part Number	Product Description
C85GE-1X-16K	C8510/LS1010 1-port GE 16K
C85GE-1X-64K	C8510/LS1010 1-port GE 64K
C85FE-8T-16K	C8510/LS1010 8-port 10/100 UTP with 16K
C85FE-8T-64K	C8510/LS1010 8-port 10/100 UTP with 64K
C85FE-8F-16K	C8510/LS1010 8-port 100-FX with 16K
C85FE-8F-64K	C8510/LS1010 8-port 100-FX with 64K



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