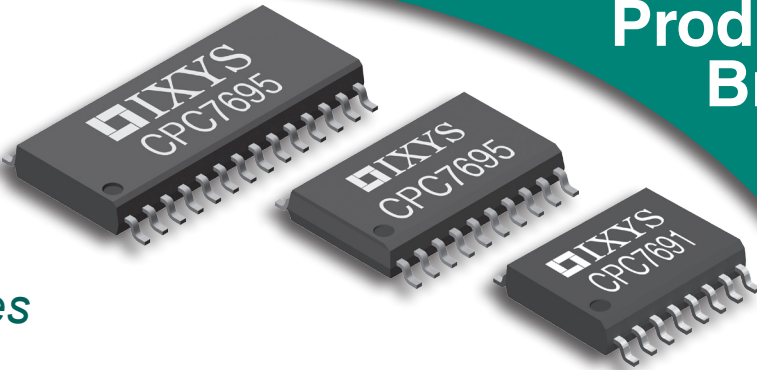


# LCAS

## Line Card Access Switches



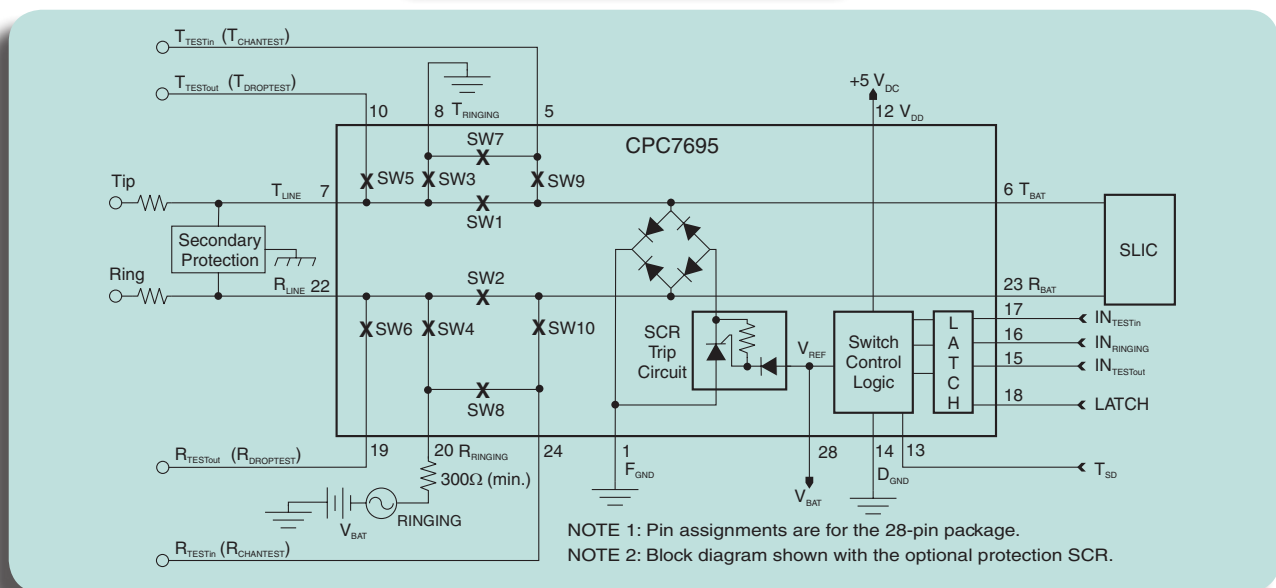
- Low, Matched On-resistance for High Longitudinal Balance
- Built-in Zero-cross Switching
- Impulse Noise Reduction
- SLIC Tertiary Protection:
  - Integrated Current Limiting
  - Voltage Clamping
  - Thermal Shutdown
- Robust Power Cross and Lightning Surge Performance
- TTL Logic Level Inputs for 3.3V Logic Interfaces
- Ultra-low Power Consumption: < 10mW
- Small Surface-mount SOIC Package
- Smart Logic for:
  - Safe power up
  - Hot-logic State Control
- Standard Voice Linecards
- Integrated Voice and Data (IVD) Linecards
- VOIP Gateways
- Central Offices
- Digital Loop Carriers (DLC)
- Digitally Added Main Line (DAML)
- Hybrid Fiber Coax (HFC)
- Fiber in the Loop (FITL)
- Pair Gain Systems
- Channel Banks
- PBX Systems

**1500V/ $\mu$ s dV/dt Immunity!**

### Line Card Access Switches (LCAS)

The Line Card Access Switch (LCAS) product family is an integral part of IXYS Integrated Circuits Division's product portfolio for the telecommunications industry. Our unique high-voltage Silicon-On-Insulator (SOI) process technology, based in our state-of-the-art fab in Beverly, MA, provides the foundation for a multitude of silicon solutions that enable low power, high density line cards. The LCAS product family provides the high-voltage functionality necessary to replace all 2-Form-C electromechanical relays found on traditional voice and integrated voice + data (IVD) line cards for cut off, ringing access, drop test, ringing test, and channel test. With the recent introduction of the next generation LCAS family, IXYS Integrated Circuits Division has added an important feature: In addition to containing all the functionality of our latest LCAS family, the new CPC769x devices feature 1500V/ $\mu$ s dV/dt immunity.

### CPC7695 Block Diagram



## Line Card Access Switch Devices

Part #	Switch Pairs						Protection Features					Logic States	Package
	# of Switches	Break	Ringing	Test Out	Test In	Ringing Test	Current Limit	Diode Bridge	Protection SCR	Minimum Hold Current			
CPC7691BA	4	•	•				•	•	•	110mA	3	SOIC-16	
CPC7691BB	4	•	•				•	•			3	SOIC-16	
CPC7692BA	6	•	•	•			•	•	•	110mA	4	SOIC-16	
CPC7692BB	6	•	•	•			•	•			4	SOIC-16	
CPC7692BC	6	•	•	•			•	•	•	110mA	5	SOIC-16	
CPC7695xA	10	•	•	•	•	•	•	•	•	110mA	7	SOIC-20 & 28	
CPC7695xB	10	•	•	•	•	•	•	•			7	SOIC-20 & 28	
CPC7695xC	10	•	•	•	•	•	•	•	•	110mA	8	SOIC-20 & 28	
CPC7591xA	4	•	•				•	•	•	110mA	3	SOIC-16	
CPC7591xB	4	•	•				•	•			3	SOIC-16	
CPC7592xA	6	•	•	•			•	•	•	60mA	4	SOIC-16	
CPC7592xB	6	•	•	•			•	•			4	SOIC-16	
CPC7592xC	6	•	•	•			•	•	•	110mA	5	SOIC-16	
CPC7593xA	10	•	•	•	•	•	•	•	•	110mA	7	SOIC-20 & 28	
CPC7593xB	10	•	•	•	•	•	•	•			7	SOIC-20 & 28	
CPC7593xC	10	•	•	•	•	•	•	•	•	110mA	8	SOIC-20 & 28	
CPC7594xA	6	•	•		•		•	•	•	110mA	4	SOIC-16	
CPC7594xB	6	•	•		•		•	•			4	SOIC-16	
CPC7594xC	6	•	•		•		•	•	•	110mA	4	SOIC-16	

For more information about IXYS Integrated Circuits Division's Line Card Access Switch Devices, please visit:

<http://www.ixysic.com/Products/LCAS.htm>

Also see IXYS Integrated Circuits Division's Dual, 6-Pole Line Card Access Switch Device: CPC75282.

<http://www.ixysic.com/Products/DualLCAS.htm>

Also see IXYS Integrated Circuits Division's LCAS Device for Ringing SLICs: CPC7508.

<http://www.ixysic.com/Products/RingingLCAS.htm>

For additional information, contact your IXYS IC Division Representative:

<http://www.ixysic.com/home/pages.nsf/locate.rep>

Or visit IXYS IC Division's web site:

<http://www.ixysic.com>