LT8644 --- Product Brief

Digital Crosspoint Switch

Features

- DC to 3.4 Gbps per port
- Programmable receive equalization
- DC- or AC-coupled differential CML inputs
- DC- or AC-coupled differential CML outputs
- Programmable CML output levels
- 50Ω on-chip I/O termination
- Supports 8b/10b, scrambled or encoded NRZ data
- I2C slave control interface
- ESD protection: HBM at ±2kV

Description

The LT8644 is a 16 × 16 digital crosspoint switch with differential CML compatible inputs and outputs. It supports data rates up to 3.4 Gbps and offers programmable level of input equalization and programmable output de-emphasis. The LT8644 is designed for high density chip to chip interconnect applications where board space and power consumption are critical. Each channel is independently configurable through an I2C interface. The LT8644 has built-in self-test features to help with system diagnostics during manufacturing. Non-channel specific I2C interface is used to provide access to advanced features.

Applications

- Fiber optic interface modules
- Digital video (HDMI, DVI, DisplayPort)
- Data storage

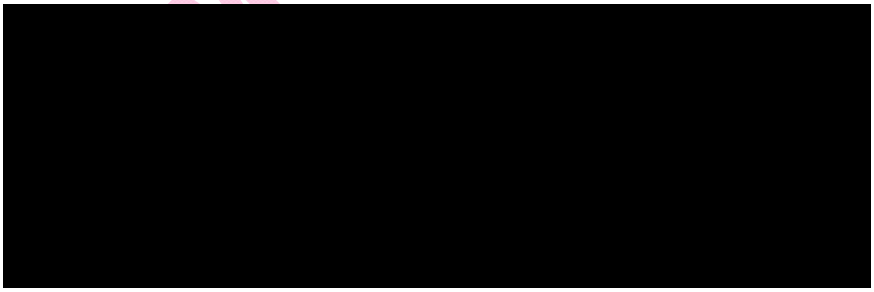


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8644	-40°C to +85°C	TQFP100(14*14)	Tray

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