

LT8644 --- Product Brief

Digital Crosspoint Switch

Features

- DC to 3.4 Gbps per port NRZ data rate
- Programmable receive equalization
- DC- or AC-coupled differential CML inputs
- DC- or AC-coupled differential CML outputs
- Programmable CML output levels
- 50 Ω on-chip I/O termination
- Supports 8b/10b, scrambled or uncoded NRZ data
- I2C slave control interface
- ESD rating: HBM at ± 7 kV

Description

The LT8644 is a 16×16 digital crosspoint switch, with 16 differential CML compatible inputs and 16 differential CML outputs. The LT8644 is optimized for nonreturn-to-zero (NRZ) signaling with data rates of up to 3.4 Gbps per port. Each port offers programmable level of input equalization and programmable output swing. The LT8644 supports independent channel switching through the serial control interface. The LT8644 has low latency and very low channel-to-channel skew. An I2C interface is used to control the device and provide access to advanced features.

Applications

- Fiber optic network switching
- Digital video (HDMI, DVI, Display Port)
- Data storage networks

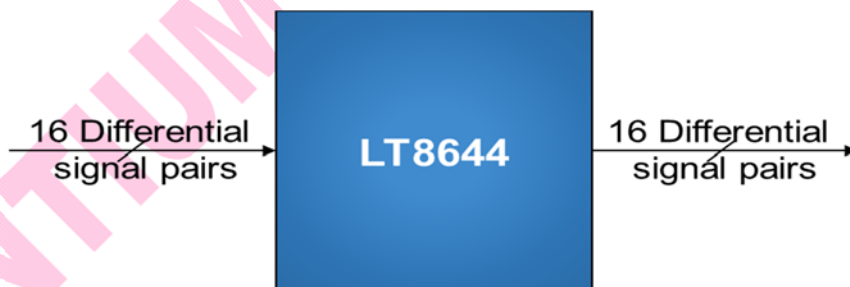


Figure 1. Application Diagram

Ordering Information

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

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