LT8644 --- Product Brief
Digital Crosspoint Switch

1. Features

- Support 250Mbps-3.4Gbps/channel,16 channels
- Programmable receive equalization
- Programmable CML output levels
- 50Ω on-chip receiver termination
- I2C slave control interface
- ESD rating: HBM at ±2kV

2. General 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 3.4Gbps 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.

3. Applications

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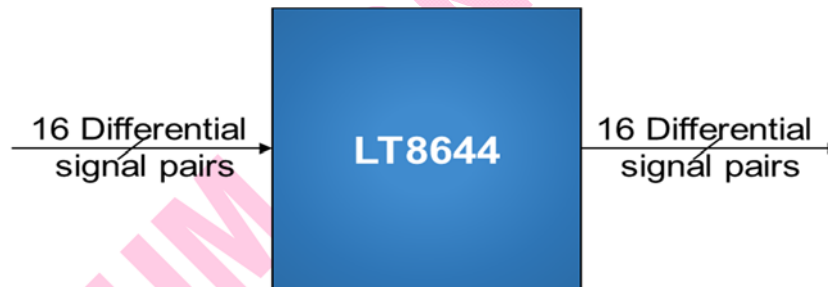- Digital video (HDMI, DVI)
- Data storage networks

Figure 3.1   Application Diagram

4. Ordering Information

Table 4.1   Ordering Information

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

Visit our corporate web page at: www.lontiumsemi.com
Technical support: support@lontium.com
Sales: sales@lontium.com