LT1258EX --- Product Brief

12.5Gbps 8-Channel Retimer

1. Features

- Support 9.8Gbps to 12.5Gbps data rate and 1/2, 1/4, 1/8 sub-rate
- Input signal detect and output sink detect support
- 2x2 cross-point switch
- Up to 4 forward and 4 backward lanes support
- Data lane polarity swappable
- Integrated CDR for Jitter clean
- On chip EOM(EYE-Open Monitor)
- Support PRBS 7/9/15/31 generator
- Up to 25dB equalization at 6.25GHz
- Programmable De-emphasis up to 8dB
- Up to 1.2V output Swing
- Selectable 2.5-V or 3.3-V supply voltage
- Support up to 400KHz I2C/SMBus slave

2. General Description

The Lontium LT1258EX is a quad 2:2 cross-point switch or splitter with signal conditioning suitable for high-speed bus applications with data rates up to 12.5 Gbps. The continuous time linear equalizer (CTLE) of the receiver provides adjustable boost to compensate up to 25dB insertion-loss at 6.25 GHz. The integrated CDR reset the jitter budget and retim6.7(upi)1.5t the i-s(e)-5.1(edsv)-8(i)1.5erialduii a up

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