2-lane DisplayPort™ Switch/Mux for DP Driven Panels with Triple Control Pins

Features

- 2 Differential Channel, 2:1 mux/demux that will support 2.7Gbps or 1.62Gbps DP signals
- 1-differential channel is used for AUX signaling
- Insertion Loss for high speed channels @ 2.7 Gbps: -1.5dB
- Hot Insertion Cable
- -3dB Bandwidth for high speed channels of 3.25 Ghz
- Low Bit-to-Bit Skew , 7ps max (between '+' and '-' bits)
- Low Crosstalk for high speed channels: -33dB@2.7 Gbps
- Low Off Isolation for high speed channels: -26dB@2.7 Gbps
- V_{DD} Operating Range: 3.3V +/-10%
- ESD Tolerance: 8kV HBM on all data I/O pins per JESD22 Specification
- Low channel-to-channel skew, 35ps max
- Packaging (Pb-free & Green):
  - 32 TQFN (ZLE)

Description

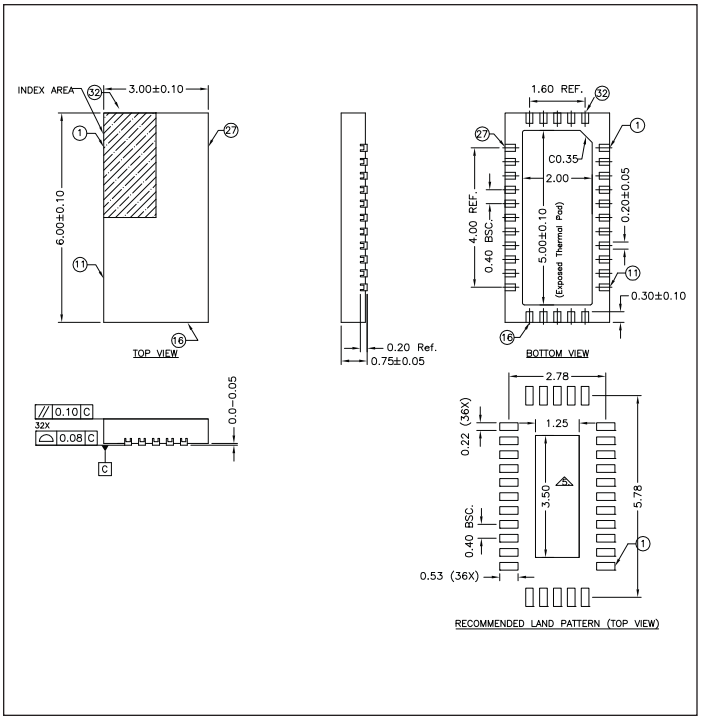
Pericom Semiconductor's PI3VeDP212 switch is targeted for next generation digital video signals. This device can be used to connect two DisplayPort™ sources to a single panel.

The newly released DisplayPort spec requires a data rate of 2.7 Gbps with AC coupled I/Os. Pericom's solution has been specifically designed around this standard and will support such signals.

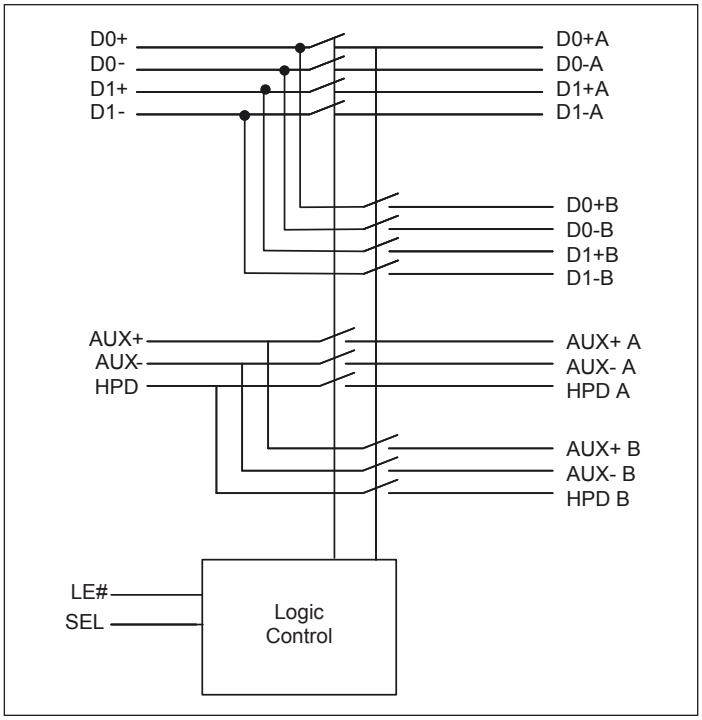
Application

Routing of DisplayPort™signals with low signal attenuation between notebook DP connector and docking station DP connector.

Packaging Mechanical: 32-Contact TQFN



Block Diagram



Ordering Information

Ordering Code	Package Code	Package Type
PI3VeDP212ZLE	ZL	Pb-free and Green 32-Contact TQFN

1. Thermal characteristics can be found on the company web site at www.pericom.com/packaging/

2. E = Pb-free and Green

3. Adding an X Suffix = Tape/Reel