

PI3USB30532

3.3V, USB3.0/DP1.2 6:4 Matrix Switch

Pericom Semiconductor's PI3USB30532 is a 6:4 differential channel bi-directional matrix switch solution for switching USB3.0 and/or DP1.2 signals through USB3.0 Type-C connector. It multiplexes either 1 lane of USB3.0, 1 lane of USB3.0 and 2 channels of DP1.2 or 4 channels of DP1.2 to the USB Type C connector. In addition, AUXHPD channels are also multiplexed to the Type C connector.

PI3USB30532 offers excellent signal integrity for high-speed signals and low power dissipation.

Application

- Routing USB3.0 SuperSpeed and DP1.2 signals through the USB Type C Connector
- Applications include ultrabook, 2 in 1 notebook, tablet, mobile workstation, All In One PC.

Features

- 6 Differential Channel to 2/4 Differential Channel Matrix Switch
- USB 3.0 5Gb/s Super Speed and DP 1.2 5.4Gb/s switching to USB Type C connector
- Supports either pin control or I2C control to configure the mux
- Multiplexes one of the following to USB Type C connector:
 - USB3.0 signal only
 - One lane of USB3.0 signal and 2 channels of DP1.2 or 4 channels of DP1.2 signal.
- 3.0V to 3.6V Power Supply.
- Industrial Temperature Range: -40°C to 85°C
- Packaging (Pb-free & Green):
 - 40- contact, TQFN(3 x6mm)

Application Diagram

