VSC3304

Device Overview

Summary

The VSC3304 is a 4-port 8.5G asynchronous switch with advanced signal equalization designed for high-speed serial backplanes and cable interconnect applications. VSC3304 switches allow multicast, loopback, and reconfigurable Input/Output (I/O) capability, allowing for great flexibility in allocating and routing signals in a broad range of applications. The VSC3304 includes dual time-constant equalization, which significantly reduces jitter associated with driving multi-gigabit signals across backplanes and cables. Using a fully asynchronous architecture allows any data rate or protocol on any channel without the need for an external reference clock. This gives the VSC3304 wire-like interoperability in virtually any application that uses binary signaling.

Additional Features

- **10GE PHYs**
  - 10GE PHYs
  - 8.5 Gbps non-return-to-zero (NRZ) data bandwidth
  - Fully non-blocking and multicasting switch core with per-pin signal inversion capability
  - Multiple time-constant programmable input and output equalization
  - Wide equalization adjustment range

Parametrics

Name	Value
Product Type	Signal Integrity
Port	4x4
Min Temp	-40 °C
Max Temp	100 °C
Max Data Rate	8.5 Gbps

Part Number	VSC3304YHV-01
Device Weight (g)	0.106100
Shipping Weight (Kg)	0.480769
Lead Count	36
Package Type	FCCSP
Package Width	7x7mm
Solder Composition	SAC305
JEDEC Indicator	e1