

Power Matters.™

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Products

▼ Switches

- ▶ Analog Cross-Point Switches
- ▶ TDM/TSI Switches with Integrated DPLL
- ▶ TDM/TSI Switches-TDM Backplane Interfaces (H.110, H.100, HMVP)
- ▶ TDM/TSI Switches-Specialized
- ▶ TDM/TSI Switches-8 K to 32 K Switching Matrix
- ▶ TDM/TSI Switches-128 to 4 K Switching Matrix

▼ Digital Crosspoint Switches

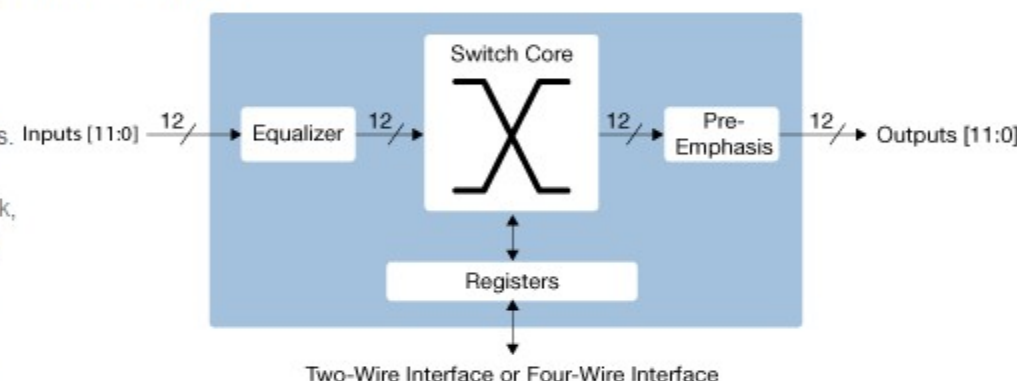
- VSC3303
- VSC3304
- VSC3308
- VSC3312
- VSC3316
- VSC3340

▶ Signal Conditioners

8.5 Gbps 12 x 12 Crosspoint Switch

The VSC3312-01 is a 12-port 8.5G asynchronous switch with advanced signal equalization designed for high-speed serial backplanes and cable interconnect applications.

VSC3312-01 switches allow multicast, loopback, and reconfigurable Input/Output (I/O) capability for great flexibility in allocating and routing signals in a broad range of applications. The VSC3312-01 includes dual time-constant equalization, which significantly reduces jitter associated with driving multigigabit signals across backplanes and cables. A fully asynchronous architecture allows any data rate or protocol on any channel without the need for an external reference clock. This gives the VSC3312-01 wire-like interoperability in virtually any application that uses binary signaling. The VSC3312-01 can also be used as a buffer that simplifies and enhances the design of high-speed signal paths by providing signal equalization at both inputs and outputs to reduce or reverse signal degradation due to transmission line effects.



| Product Variants | Status | Description |
|------------------|------------|--|
| VSC3312YYP-01 | Production | Latest generation 196-pin 15 x 15 mm FCBGA lead-free, 8.5 Gbps operation |
| VSC3312XYP-01 | Obsolete | Latest generation 196-pin 15 x 15 mm FCBGA lead-free second-level interconnect, 8.5 Gbps operation |
| VSC3312YP-01 | Last Buy | Latest generation 196-pin 15 x 15mm FCBGA, 8.5 Gbps operation |
| VSC3312YP | EOL | 196-pin 15 x 15mm FCBGA, 6.5 Gbps operation |
| VSC3312XYP | EOL | 196-pin 15 x 15 mm FCBGA lead-free second-level interconnect, 6.5 Gbps operation |

Related Products

- 10GE PHYs

Key Features

- 8.5 Gbps 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
- Fully asynchronous operation with <1 ns latency