

## vSC7147

The VSC7147 expands Vitesse's wide offering of Fibre Channel products with an IC for the growing $2.125 \mathrm{~Gb} / \mathrm{s}$ Fibre Channel storage market. The device features six Port Bypass Circuits (PBC) that support both $1.0625 \mathrm{~Gb} /$ s and $2.125 \mathrm{~Gb} / \mathrm{s}$ Fibre Channel data rates. The VSC7147 enables Fibre Channel Disk Arrays, JBODs (Just a Bunch of Disks) and storage subsystem equipment designers to integrate more ports and disk drives and maintain consistently high signal quality using fewer components.

Each FibreTimer cell contains an all-digital clock recovery unit (CRU) that can be configured as either a Repeater or a Retimer. In the repeater mode, recovered data is retransmitted to a recovered clock, allowing for improved jitter attenuation and low latency. In the retimer mode, recovered data is re-transmitted synchronously to a local reference clock with no jitter transfer ensuring compliance to Fibre Channel signal quality specifications.

The VSC7147-01 adds an analog signal detect (ASD) function which helps the signal detection capabilities of the Fiber Timers ${ }^{T M}$.

In addition to the PBCs that steer serial Fibre Channel signals to disk drives and bypass faulty ports, the VSC7147 features dual FibreTimer Repeater/Retimer cells.

VSC7147 APPLICATIONS:


Several VSC7147's can be cascaded together to create a JBOD. The flexibility of the FibreTimers allow repeater and retimer functions to reside where they make the most sense for the backplane board design.

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