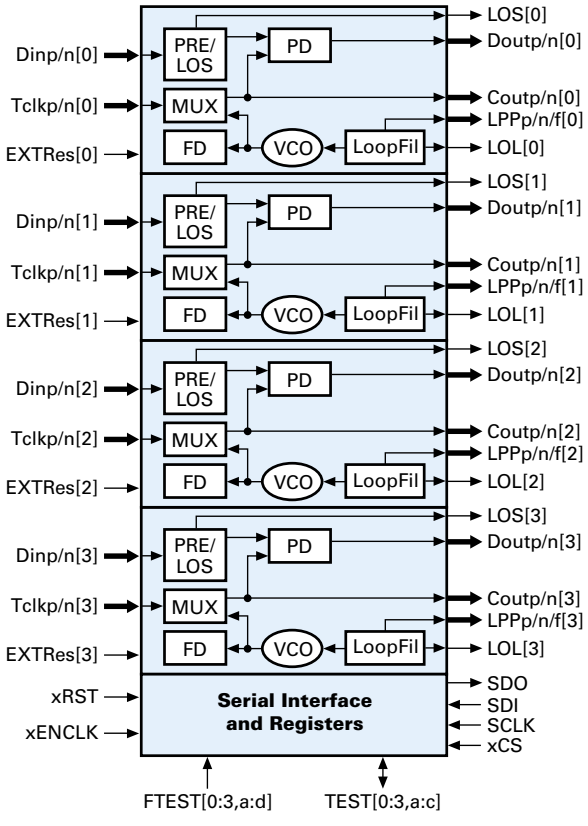
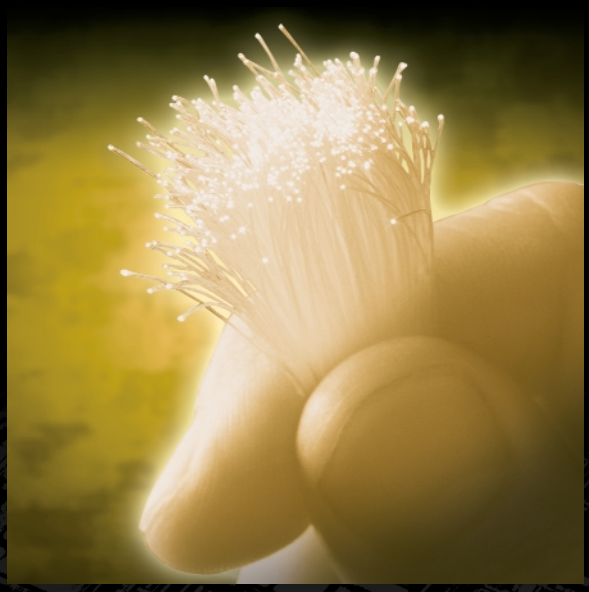
CONEXANT™

2.5 Gbps Quad Clock and Data Recovery

CX20464

The CX20464 is used to retime signals in large switch matrices. CDRs are critical elements in the SONET/SDH telecom transmission system, providing internal retiming of high-speed signals. Conexant's quad OC-48 CDR is one of very few commercially available quad 3.2 Gbps retimers, and can be used with the CX20462 and the CX20472 crosspoint switches. It enables the development of high-density switch cores, while substantially reducing the number of ICs on a single board. This also reduces power dissipation, a critical objective of today's telecom system designers.





Distinguishing Features

- Low-power (3.3V and 2.5V) operation (power dissipation approximately 750 mW at 2.5V)
- No external references
- Programmable for operation up to 3.2 Gbps
- SmartCenter™ CDR architecture, jitter tolerance > 0.7 UI
- 196-pin BGA