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**Cree XLamp® LEDs**  
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LED Light

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## EEM

- Application
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This article was written for the Sep 2005 issue of Electronic Products

## Transceiver serves STS-12 or STS-3

The XRT91L30 SONET transceiver has selectable full-duplex operation at the STS-12/STM-4 rate of 622 Mb/s or STS-3/STM-1 rate of 155 Mb/s. The chip includes parallel-to-serial and serial-to-parallel converters, a clock multiplier unit, clock data recovery functions, and a SONET/SDH frame and byte-boundary-detection circuit.



The IC has 8-bit LVTTTL parallel data bus paths running at 77.76 or 19.44 Mb/s and meets Telcordia, Bellcore TR-NWT-000253 and GR-253-CORE, and ITU-T jitter requirements. The device operates at 3.3 V using less than 660 mW typ, and comes in a 10 x 10-mm 64-pin QFP. (\$24 ea/1,000—available September.)

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