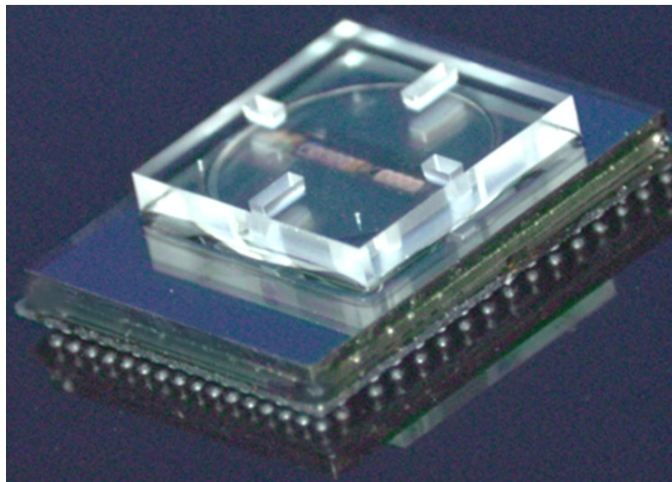


X80S FURY Chip Scale Packaged Quad Transceiver Product Brief

The X80S FURY is a Chip-Scale Package (CSP) surface-mount instantiation of a 4-channel transceiver for parallel optical data communications up to 10 Gbps per channel. The X80S FURY integrates into a single reflow solderable package a transceiver IC, a GaAs Vertical Cavity Surface Emitting Laser (VCSEL) array, a GaAs PIN photodetector (PD) array and a glass lens array with a lens guide mechanism allowing registration of the RVCON™ parallel fiber termination. The X80S FURY electrical interface consists of BGA solder balls that can be reflow soldered onto a circuit board. The X80S FURY is designed for hi-reliability systems that require operation in harsh environments, including extended temperature ranges, shock and vibration, temperature cycles and high humidity. It includes advanced built-in-test functionality for continuous monitoring of operating conditions, both internal IC status and external parameters, such as fiber optic link-loss and signal quality.



FEATURES:

- Operating data rate: 10 Mbps to 10 Gbps per channel
- SMT reflow solderable package
- Removeable connector/fiber termination
- 850 nm VCSEL transmitter
- Package size: 7.7 x 10 mm
- Supply voltage: 3.3 V
- Radiation tolerant circuitry
- Temperature range: -40 to +85°C
- Module management, controls, and diagnostics through SPI
- High Rx dynamic range with AGC (Automatic Gain Control)
- Individual channel power-down and squelch

BUILT-IN-TEST (BIT):

- ASIC temperature
- VCSEL voltage
- Supply voltage
- RSSI – average RX optical power monitoring

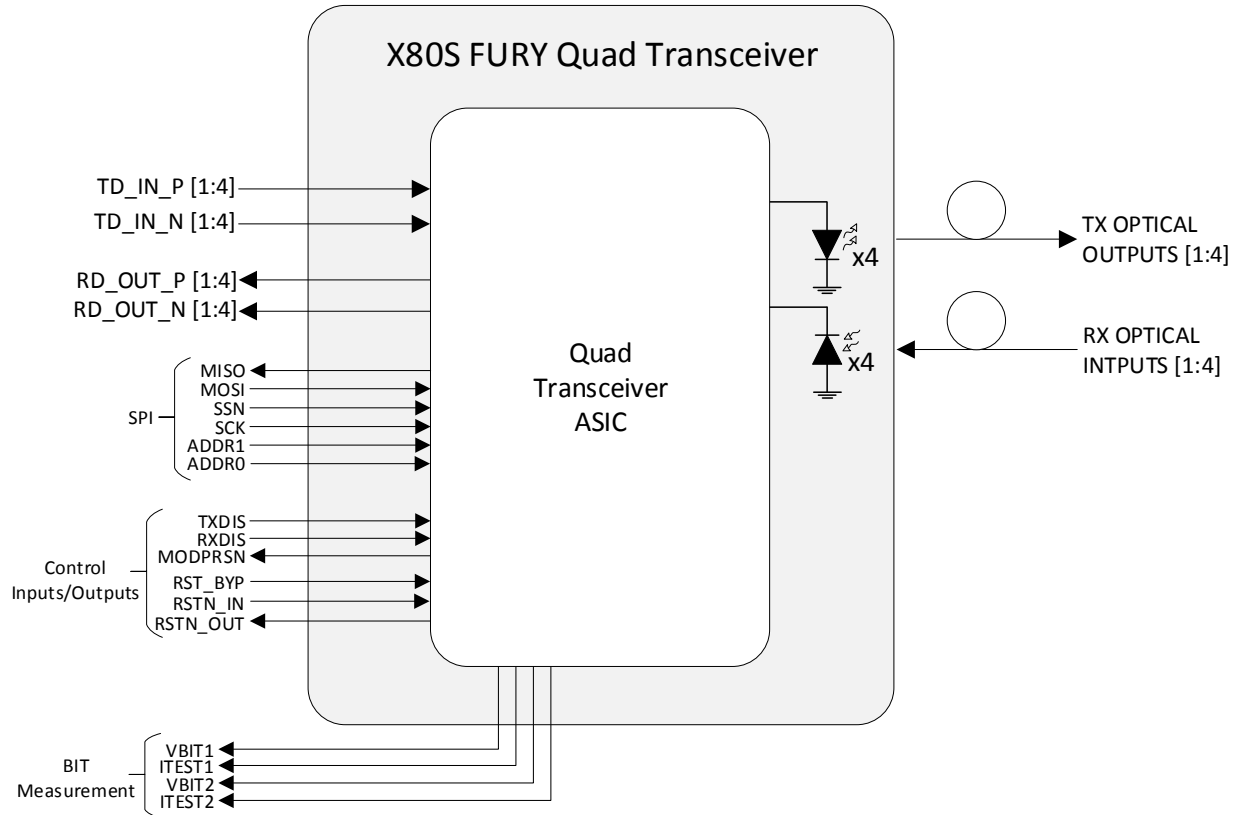


Figure 1: Block Diagram

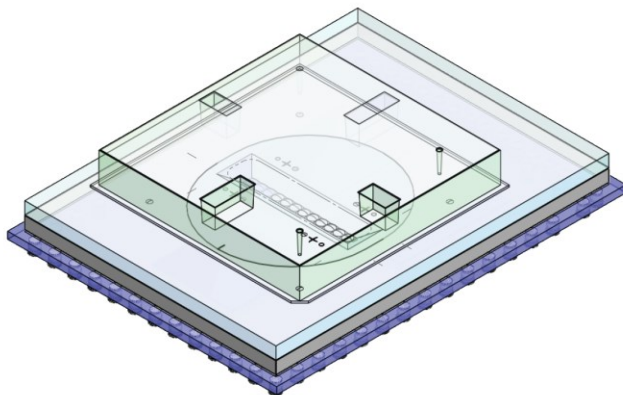


Figure 2: Top view of X80S Fury transceiver

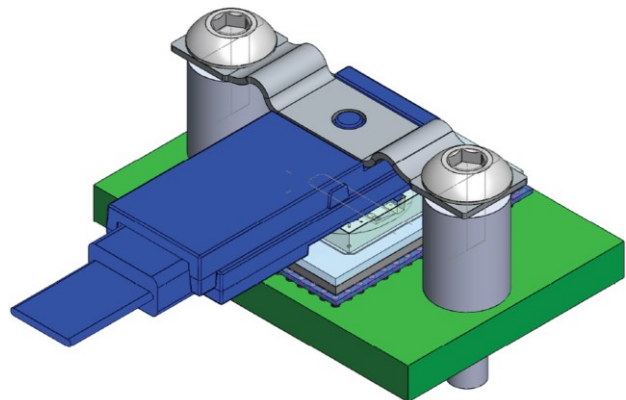


Figure 3: X80S Fury transceiver assembled onto PWB with RVCON™ cable attached

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