

DESCRIPTION

The TX6G-SH51-01 is a four-channel transmitter optical subassembly (TOSA) that supports up to 24 Gbps data transmission, at 6 Gbps per channel PLUS a 150 MHz bi-directional communication channel over one multimode fiber. The integrated laser diode driver allows for optimization of the optical transmission settings to support a wide range of application requirements. When paired with the RX6F-SH51-01 ROSA, the solution can support 24 Gbps optical links up to 1000m. The patented CWDM optic provides a robust SC optical interface and a zero-insertion force flex circuit provide a flexible form-factor to support small optical designs. The TX6G-SH51-01 brings the benefits of optical interconnects to any system design with a simple optical interface.



FEATURES

- Four 6 Gbps high-speed channels and a 150 MHz low-speed Tx/Rx link over a single multimode fiber
- Low-stress, highly flexible ZIF connection provides a robust mechanical design
- Supports 50-micron OM3 or OM4 fiber with an SC Connector interface
- Allows FCC Class B compliance at customer end product level
- Enables high-speed, long-distance, EMI-immune optical links
- Single fiber solution reduces cost and complexity of fiber interface

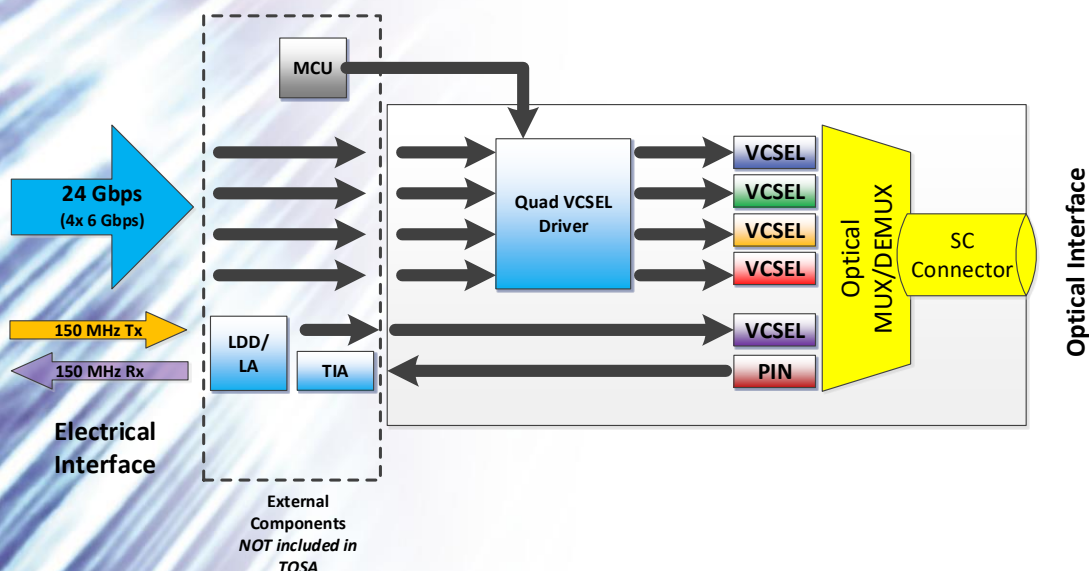
APPLICATIONS

- Optical Extenders
- Matrix Switches
- Optical Transceivers

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
TX6G-SH51-01	24 Gbps Transmitter Optical Subassembly with 150MHz Bi-di Sideband
RX6F-SH51-01	24 Gbps Receiver Optical Subassembly with 150MHz Bi-di Sideband (see corresponding data sheet)

BLOCK DIAGRAM



DESCRIPTION

The RX6F-SH51-01 is a four-channel receiver optical subassembly (ROSA) that supports up to 24 Gbps data rates, at 6 Gbps per channel PLUS a 150 MHz bi-directional communication channel over a single multimode fiber. The integrated transimpedance amplifier allows for optimization of the high-speed output channels to support a wide range of application requirements. When paired with the TX6F-SH51-01 TOSA, the solution can support 24 Gbps optical links up to 1000m. The patented CWDM optic provides a robust SC optical interface and a zero-insertion force flex circuit provide a flexible form-factor to support small optical designs. The RX6F-SH51-01 brings the benefits of optical interconnects to any system design with a simple optical interface.



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