

OPX10G Series

10G Transponder Product Brief

Features:

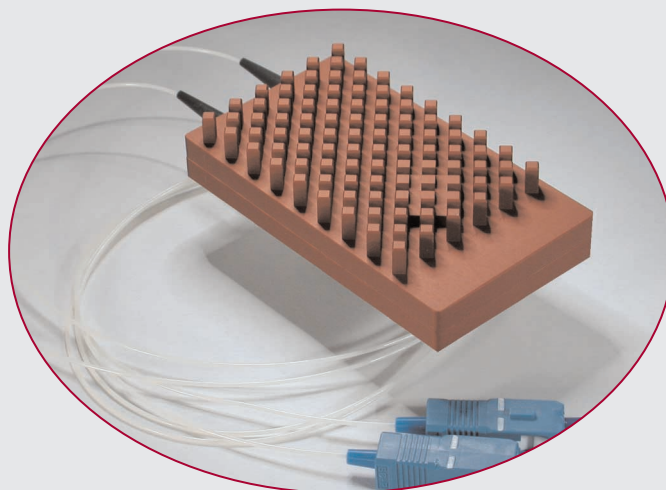
- Compatible with BELLCORE GR253 (SONET/SDH), ITU-T G.958 (ITU-T G.691), ITU-T G.709/y.1331 (OTN)
- 3.8W Typical 4.2W max power dissipation
- Compliant with OIF 99.102 and both OC-192 Transponder MSA agreements
- SONET compliant to 70° case temp
- 200 Pin MSA 3' L x 1.6' W x 0.53' H
- 300 Pin MSA 3' L x 2' W x 0.53' H
- Optical serial transmission at 9.95328 to 10.709255 Gb/s (9.953 Gb/s SONET/SDH, 10.644 Gb/s SONET FEC, 10.709 Gb/s OTN and 10.3GE
- 16:1 data multiplexing / demultiplexing
- Power supply +3.3V, +5.0V
- Supports 622 MHz or 155 MHz Ref clock
- I²C general purpose I/O bus for easy access to transponder status data
- Transmission distance up to 20km
- Directly modulated 1310 nm DFB laser
- Receives from 1300 nm to 1660 nm

Applications:

- Short-reach SONET/SDH inter-office and intra-office
- Subscriber loop
- Metropolitan area networks
- Short reach high speed data communications networks

Descriptions:

- The OPX-010 Transponder provides the opto-electronic interface between the optical fiber & the electronic system framer or add-drop multiplex device for 10 Gb/s short-to-intermediate reach 1.3 μ m SM systems.
- The Transponder contains all functions needed to extract the data and clock from the receive optical fiber and inject a SONET/SDH compliant optical signal into the transmit optical fiber.
- The system interface is via a 16 bit data parallel BLVDS (622 Mb/s) data bus and accompanying LVDS clocks.
- Generation of the 10 Gb/s transmit clock from a selectable 155.52 or 622.28 MHz reference clock is done within the Transponder.



OptronX Inc.

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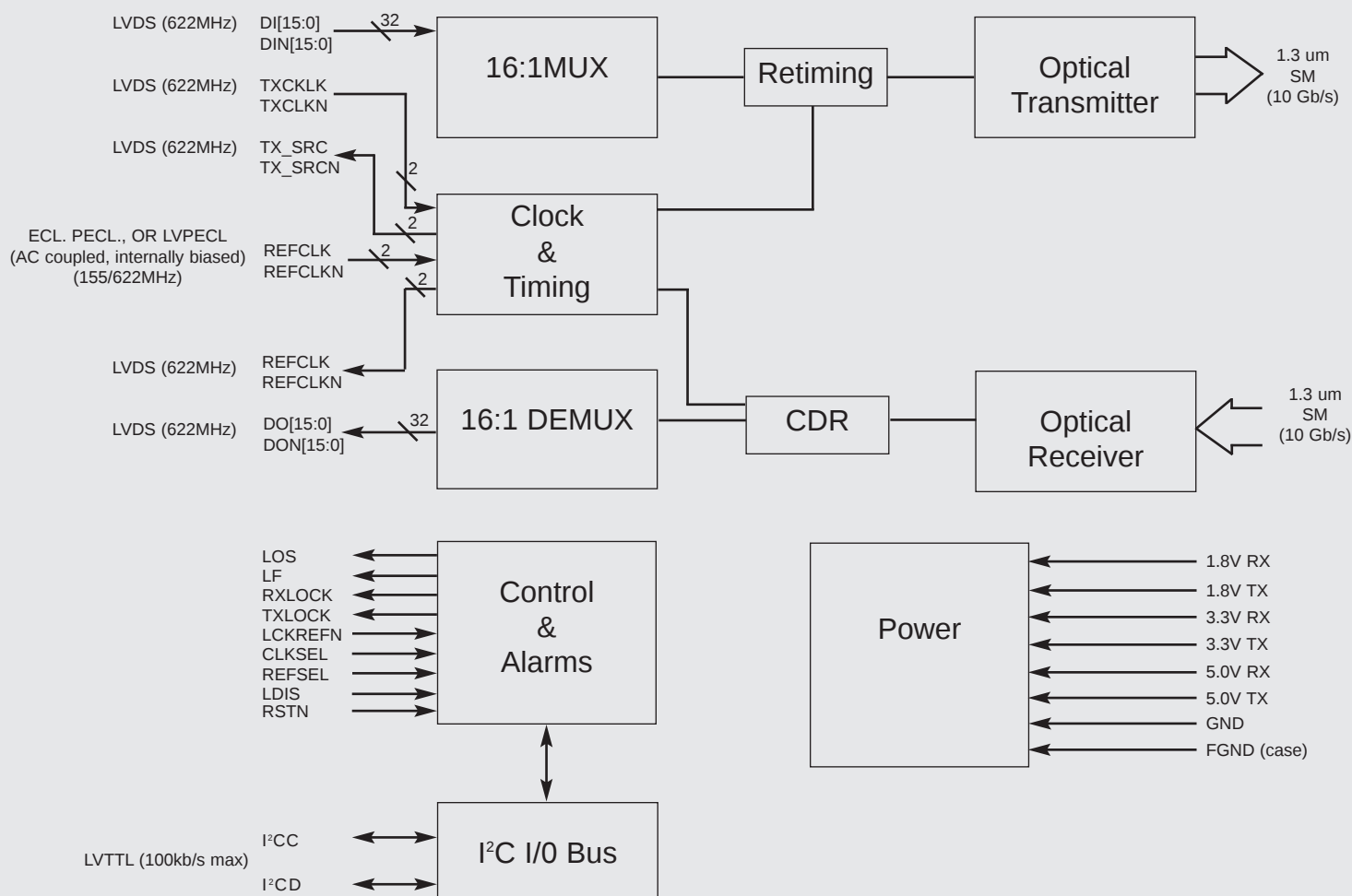
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Transponder Block Diagram:



Part Number – Application:

Part Number	200 Pin MSA	300Pin MSA	Uncooled	1310nm	VSR-SR	IR1
OPX10G2S-SR13-SC-0	X		X	X	X	
OPX10G2S-IR13-SC-0	X			X		X
OPX10G3S-SR13-SC-0		X	X	X	X	
OPX10G3S-IR13-SC-0		X		X		X



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