MIL-AERO-GRADE PARALLEL OPTIC TRANSCEIVER WITH COMPACT FORM FACTOR



DataStar™ MIL-AERO

Hermetically-sealed Quad **Parallel Optic Transceiver**with up to 14 Gbps per

channel performance



Glenair DataStar™ MIL-AERO 4-Channel (8-fiber) PCB-mounted transceivers provide electro-optical conversion from -40°C to +85°C operating temperature in high shock and vibration environments. Modules may be configured for variable signal integrity requirements and for different data rates, up to 14 Gbps per fiber.

Class 1M Lasers with enhanced output power enable higher link margin than commercial counterparts. The compact form-factor design includes an internal microprocessor that provides automatic compensation of transceiver parameters over temperature. The optical transceiver engine has I2C

interface capability, while the host board interface is a high-speed surface-mount electrical connector, with secure mechanical attachment.



- Compact package with internal microprocessor
- Secure PCB screw-mounting ensures excellent shock and vibration performance
- No-solder high-speed electrical PCB connector
- -40°C to +85°C operating case temperature
- 12-fiber MTP® connector socket
- Supports conduction or convection cooling
- Class 1M laser output power for higher link margin

Aerospace-Grade Parallel Optic Quad Transceiver with up to 14 Gbps per fiber



050-346

KEY TECHNICAL FEATURES



QSFP+ CML-Compatible

COMPLIANCE SPECIFICATIONS

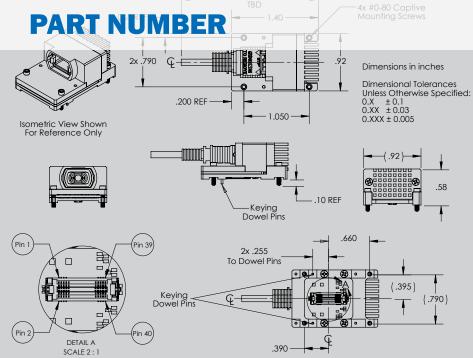
Characteristic	Standard	Condition	Notes
Mechanical Shock, Operating	MIL-STD-810	Para. 516.6, proc. I, 650g. 0.9ms, x,y and z 10 pulses (5+ & 5-)	0.9 ms operating error-free after exposure to shock and random vibration, when using female MTP® cable assembly.
Mechanical Vibration	MIL-STD-810	Para. 514.6, 46g rms x, y, and z, 2 hours per axis	Random, operating error-free, when using female MTP® cable assembly.
ESD	ARINC 804-1 (MIL-STD-883H)	Method 3015.8, Class 1C	500V HBM (TBV)

■ QSFP+ cNO LONGER ACTIVE FOR

Memory Map

TFACTORY FOR ALTERNATIVE

- Class 1M Lasers with enhanced output power and sensitivity enable higher link margin than commercial products
- ARINC 818, 100G Ethernet, FC 1x, 2x, 4x, 8x, 16x, 32x, **sRIO, 10G BASE-SR, 40G** BASE-SR4, 100GBASE-SR4 applications
- Multiple FPGA protocols
- 850nm in InGaAs VCSEL lasers to support 28Gbps
- GaAs PIN PD supports excellent Sensitivity to 14Gbps



050-346 EVALUATION BOARD

For test evaluation of 050-346 board-mount transceiver module. Designed for high data rate operation, supporting rates up to 14 Gbps. Board incorporates 16 SMA connectors to interface with high-speed 100 Ohm differential lines. Transceiver device is powered through 3.3V and GND connections. FMC Evalboard also available.