

Atlas Transponder Evaluation Board

Civcom's transponder evaluation board is an automated, computer controlled testing and evaluation platform for universal 300PIN MSA high-speed transponders including fixed, narrow-tuning and widely tunable. The transponder evaluation board includes interfacing circuitry to enable full control and monitoring of 300PIN MSA transponders. These circuits include multi data rate mux and demux to enable sending and receiving of electrical serial data in rates from 9.95Gbps and up to 12.5Gbps.

- External BER Tester Mode
- Stand Alone Mode
- Electrical Loop back Mode
- operation mode shown on LCD
- supplied with a LabView VI Library

Free-X Ultrafast Optical Switches

Civcom's family of ultra fast optical switches and shutters is based on Civcom's patented Solid Free Space (SFS) technology that combines solid-state operation inside a free-space-propagation architecture. Using an electro-optic switching operation with no moving parts, these modules enable extremely fast, reliable switching for a wide variety of applications in the communications, military, medical/bio-technology, avionics, industrial and test & measurement industries.

- wavelengths from 535 up to 2100nm
- switching time <400ns
- ultra high reliability (100's of billions of cycles)
- 1x1, 1x2, 2x2 configuration available
- optional PMF

Free-Path Tunable Optical Dispersion Compensator

The TODC is a Tunable Optical Dispersion Compensator, which is used to compensate for chromatic dispersion and provides dispersion value ranging from -1700ps/nm to $+1700\text{ps/nm}$; approximately equivalent to $\pm 100\text{km}$ of standard single mode fiber. The TODC is packaged and sealed in a standard 14-pin butterfly package and is based on four Gires-Tournois (GT) etalons cascaded in free-space.

Standard TODC device uses etalons with 50GHz Free Spectral Range (FSR) over the C-band. As a result, the TODC is operating as a multi-channel filter compensating for chromatic dispersion for all wavelengths on the ITU grid.

- for 10G application
- low insertion loss (2dB)
- up to 12.5Gbps
- small size

