

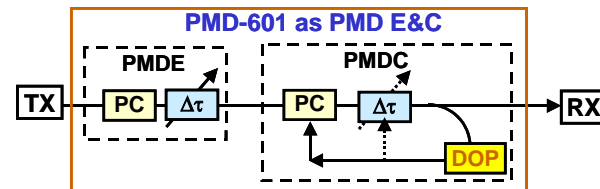
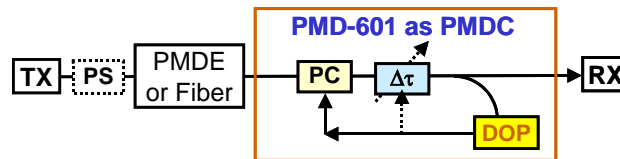
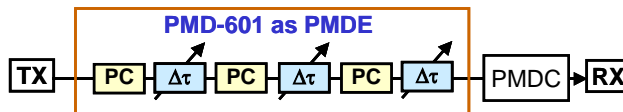
Polarization Mode Dispersion Development Platform

PMD-601

The PMD-601 is an integrated, flexible platform for developing PMD related techniques, especially PMD emulation and compensation. The platform can be configured for many different functions, including: (i) a PMD emulation platform that can provide the same functionalities as the PMDE-301 (all-order PMD emulation, DGD generation, first-order PMD emulation, polarization control and scrambling, slow dynamics, etc.) (ii) a PMD compensation development platform with different configurations; (iii) an integrated system with a PMD emulator followed by a PMD compensator. Up to six individual modules with different functions for PMD effects, including programmable or fixed DGDs, dynamic polarization controllers and a high-speed in-line polarimeter (providing instantaneous DOP information for PMD monitoring), can be configured according to various requirements or applications. This "all-in-one" platform provides a powerful development tool for system designers to combat one of the most challenging degradations in high performance systems - PMD.



Typical Configurations



Preliminary Specifications

Operating Wavelength Range	1550 ± 50 nm
Programmable DGD	DGD-6B2 (10-Gb/s or 40-Gb/s) (see data sheets)
Dynamic Polarization Controller	PCD-MOS-4X (see data sheets)
High-speed polarimeter	POD-001 (see data sheets)
Fixed DGD	FDE-001 (see data sheets)
Operating Temperature	10 °C to 50 °C
Storage Temperature	-20 °C to 60 °C
Electrical Interface	Digital I/O and analog output control
Software	Programs to emulate PMD and control individual modules, laptop included
Power Supply	100 - 120 VAC, 50 - 60 Hz, or 200 - 240 VAC, 50 - 60 Hz
Dimensions	3.48" (H) × 8.69" (W) × 14.44" (L)

Applications:

- PMD emulation & compensation
- System evaluation
- Distributed PMD E&C
- Advanced techniques (IS, MCC)
- Algorithm development
- PMD monitoring

Unique Features:

- Multiple and reconfigurable functions
- Fast control speed
- High stability and repeatability
- User-friendly control interface
- Customized configurations

Ordering Information:

PMD-601

Configured per customer specifications.



General Photonics Corp.
5228 Edison Ave.
Chino, CA 91710

Tel: 909.590.5473
Fax: 909.902.5536

Email:
info@generalphotonics.com

Website:
www.generalphotonics.com