

Advanced Photonic Systems Lab at Queen's University



Housing a collection of test equipment and accessories for fibre optic telecom research, the Advanced Photonic Systems Lab is a test facility available to all Canadian academic researchers.

Optical sources

DWDM: C-band DFB modules, 100 GHz ITU spacing, 17 in total; one comb source, also 100 GHz channel spacing; two tunable lasers, in S/C/L bands.

Other sources: Broadband sources in telecom bands; Raman amplifier, S-band; a 160 Gbit/s fibre ring laser source at 1550 nm.

Optical amplifiers: C- and L-band erbium-doped fibre amplifiers (EDFA's).

In addition, we have tunable filters, wide-range power meters, switches and delays.

Optical test

BER measurements: a 12.5G Signal Quality Analyser; one 43.5G BERT.

Dispersion: an Optical Vector Analyser; a Dispersion Analyser; Optical and RF Spectrum Analysers; a Chirp tester for 10G and 50G; one high-resolution Spectrometer.

Component characterisation: a 6ft. by 4 ft. optical table and auto-aligning, motorised positioners; butterfly-package fixtures and TEC/current controllers.

General test: optical/RF oscilloscopes and modules.

We welcome enquiries. For more information
about the lab, contact:

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