

## Optical/Comms Test & Measurement



- Optical/Protocol Transport Test (up to 400G)
- Optical Switching, Mfg. Lab Test, Fiber Inspection



- Optical spectrum analyzers / 350nm-5.0um
- Wavelength meter, OTDR, OTLS
- Multi-Application Test System (MATS)



- WaveShaper series Programmable Optical Filter
- WaveAnalyzer High resolution spectrum analyzer



- Single and Multi-Wavelength Meter, High-Speed: CW and modulated signals
- Scientific wavelength meter and spectrum analyzer



- Tunable lasers for C, L, C+L bands standalone and high-density modules from 1 to 104 tunable sources
- Automatic Mach Zehnder BIAS Control



- Tunable chromatic dispersion emulator, compensator
- Chromatic Dispersion Emulator (up to 45,000 ps/nm)



- High resolution optical spectrum analyzer 10 MHz & dynamic range > 80 dB, C, C+L, L Band
- BOSA Lite with 20 MHz & > 80 dB dynamic range



- Optical Cross Connect Switches, non-blocking
- 4x4 up to 384x384 matrices



- Optical Vector Analyzer (OVA)
- High Resolution Backscatter Reflectometers (OBR)
- Tunable Lasers (Instrument and components)



a Luna company

- PMD/PDL/SOP Emulation
- Miniature optical delay line, OFDR, Optical Component Analyzer, Optical Coherence Domain Reflectometer, Tunable Laser, Optical Frequency Analyzer



- Layer 2-3 Gigabit Ethernet traffic generator supporting auto-negotiation and link training (up to 400G)
- Stateful Layer 4-7 Ethernet traffic generator (up to 40GE)



- Optical probe station for complex die or single wafer testing for development lab/project
- Probe station hardware, rack-mount control modules, software



- Fiber Lasers – CW and Pulsed: Green, 1064nm, 1550nm and 2000nm
- Amplifiers – CW and Pulsed: 1064nm, C&L Band (SM, PM), 2000nm
- Broadband Sources – 1064nm, ASE, Raman, 2000nm



- NRZ & PAM Pattern Generators up to 128 GBaud (256 Gbps) per Channel
- Error Analyzers up to 128 Gbps NRZ and 58 GBaud PAM4
- Arbitrary Waveform Generators up to 60 GSa/s
- Multiplexers (MUX) & Demultiplexers (DEMUX) up to 128 Gbps
- Digital-to-Analog Converters (DAC) up to 128 GBaud (256 Gbps)

## Components



- High-power laser diodes
- Wavelengths range 630 nm to 1120 nm
- Broad Area Laser, Tapered Laser, Ridge Waveguide Laser/Fabry Perot Laser, DFB/DBR Laser



- 40-100GHz Photodetectors and Receivers, Single Ended and Balanced
- Integrated Balanced Receivers, DPSK, DQPSK, Coherent Solutions
- Optical transceivers, amplifiers



- Wavelength Management Components
- ROADMs
- WSS Elements



- Optical MEMS switches and VOAs
- Switches: SM, MM, 1xN and MxN
- 2-D Galvanometers
- Rackmount, benchtop and component



- RF-over-Fiber Experts
- 50 GHz Analog Fiber Optic Links
- Antenna Remoting



- Delay Lines Interferometers
- 90° optical hybrids, Variable Optical Delay Line
- DWDM and Modal Mux/Demux
- Optical Switches. Custom optical assembly



- Fiber-Q™ Modulators and Drivers
- DFB Lasers and Modules / Fused Fiber Optic Components
- Fiber Coupled Pump Laser



- iNbO3 Modulators: Phase, Intensity and Polarization
- Switches and Scramblers up to 40GHz
- Wide wavelength selection – 780nm - 2µm
- Reference/Analog Optical Transmitters
- Sub-nanosecond Optical Pulse Shapers



- GaAs Modulators – ideal for aerospace and satellite applications
- Broadband and IQ Modulators up to 45GHz

## Electrical & General Purpose Test



- MIPI C-PHY, D-PHY ultra-portable, high-performance Generator and Analyzer
- SerDes Tester and BERT Functions, Pattern Generator Functions - 8 or 32 lanes, up to 28 Gbps, handheld form-factor, USB Controlled, Software-Defined



- Smart Power for optical components
- Multi-channel Voltage/Current sources
- Channel Counts from 8 to 120 channels

## **Services**

---



- Quality reseller of test equipment, components and bundled solutions
- Distributor for Finisar, Nuphoton, ID Photonics, Aragon, Muquans, eagleyard, Sercalo, Kyla, G&H, iXblue, aXenic, TeraXion, II-VI, Introspect, Nicslab



- Equipment rentals and used equipment sales
- Viavi rental and lease partner



- Engineering and Project Management Consulting Services
- Serving communications, RF/microwave/fiber-optics, autonomous vehicles and satellite payload marketplaces



- Custom Fiber Optics and RF Communications Designs
- Complete turnkey hardware and firmware developments