

Optical/Comms Test & Measurement

VIAXI

- Optical/Protocol Transport Test (800G)
- CFP/CFP2/CFP4/QSFP+/QSFP28 Stress Test
- Optical Switching, Mfg. Lab Test
- Optical Field Test
- Fiber inspection and test

YOKOGAWA

- Optical spectrum analyzers / 350nm-5.5um
- Wavelength meter
- Multi Application Test System (MATS) – Grid Tunable Laser, LD, Optical Switches, VOA, Optical Sensor
- OTDR, OTLS

IVI

- WaveShaper series Programmable Optical Filter
- WaveAnalyzer High resolution spectrum analyzer
- WaveShaper 1000/SP 1µm Programmable Single-Polarization Filter

LUNA

- Optical Vector Analyzer (OVA)
- High Resolution Backscatter Reflectometers (OBR)

General Photonics Products:

- Polarization Controllers, Scramblers and Analyzers
- PMD & PDL generators and emulators
- OFDR-1000 Hi-Resolution Reflectometer

BRISTOL INSTRUMENTS

- Single and Multi-Wavelength Meter, High-Speed: CW and modulated signals
- Laser spectrum analyzer

IDPHOTONICS

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

NUPHOTON TECHNOLOGIES

- 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

ARAGON PHOTONICS

- 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

polatis

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

XENA NETWORKS

- Layer 2-3 Gigabit Ethernet traffic generation
- Covers rates from 1GE up to 400GE, supports CFP4, QSFP28, QSFP+, CXP

SHF Communication Technologies AG

The bandwidth company

- 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)

TeraXion

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

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



- Highly Linear and Low Noise Tunable Laser
 - Fiber Fabry-Perot Tunable Filters
- General Photonics Products:**
- Polarization Control, Scramble and Tracker Modules
 - Polarization Switch and State Generator modules
 - OCT modules and components (MDL, PD, Couplers etc.)
 - Fiber Coils for FOG applications

Rio Products:

- Ultra-narrow linewidth laser diodes & modules
- 1550nm & 1064nm, up to 2W power, PM/SM fiber
- CW & FM modulation (up to 200 MHz)
- Low noise, high stability, highest reliability



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



- 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



LINEARIZER
COMMUNICATIONS GROUP

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



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



- iNb03 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

Kylia Products:

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



- Broadband RF & Microwave Amplifiers up to 67 GHz
- RF Switches, Filter and Attenuators
- Frequency Dividers & Multipliers
- Bias Tees and DC Blocks up to 110 GHz
- RF & Microwave Connectors and Cables up to 110 GHz



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



- DWDM, Isolators, Splitter/Coupler
- CWDM, Hybrids, Switches
- Circulators, GFF, Pump Combiners



- Polarization Maintaining Cables
- Single-Mode, Multimode Cable
- Laser pigtails, Space Flight/Defense Cables



- Spatial mode multiplexer for use is space division multiplexing.
- Standard Multiplexer for SDM research
- Tailor-made to fulfill all spatial multiplexing requirements

Electrical & General Purpose Test



- SerDes Tester and BERT Functions, Pattern Generator Functions - 8 or 32 lanes, up to 32 Gbps NRZ & 56Gbps PAM4, handheld form-factor, USB Controlled, Software-Defined
- Test Solutions for: DDR4/DDR5 Memory Interfaces, PCIe, MIPI (Display, Touch, Imaging and Camera) and I3C
- MIPI DSI and DSI-2 Protocol Analyzer
- MIPI D-PHY and C-PHY Frame Grabbers



- 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, Kylia, 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