



## Analog Fiber Optic Links



### Linear Photonics ([www.linphotonics.com](http://www.linphotonics.com))

- Analog fiber optic transmitters and receivers to 50 GHz, >100 dB dynamic range
- Antenna Remoting Solutions with ruggedized outdoor units
- Delay lines, WDM systems, linear communications links, remote sensing
- Time over Fiber interfaculty link systems: IRIG, 1PPS, CW/Sine standards, GPS

## Optical Components



([www.acacia-inc.com](http://www.acacia-inc.com))

- The Leader in Coherent Optical Communications
- AC1200 providing 1.2Tbps of capacity in a 5"x7" footprint
- CFP/CFP2-DCO and CFP2-ACO coherent pluggables to 200Gbps
- DSP and Silicon PIC solutions to integrate into your products



([www.axenic.co.uk](http://www.axenic.co.uk))

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



([www.eagleyard.com](http://www.eagleyard.com))

- Ridge Waveguide Lasers 10mw-300mw for: *spectroscopy, bio-analytics, life science and up-conversion fiber lasers*
- Broad Area Lasers 1W-7W for: *solid state pumping, material processing and medical and research applications*
- Tapered, DFB and DBR Lasers from 630nm-1120nm



([www.finisar.com](http://www.finisar.com))

- 100GHz packaged photodiodes (Photodetectors)
- Combined with integrated TIA (Photoreceivers)
- Coverage both optical windows: 1310 nm and 1550 nm



([www.generalphotonics.com](http://www.generalphotonics.com))

- Polarizers, polarization diversity detectors, depolarizers
- Fixed differential group delay, Faraday rotating mirrors
- automatic PMD compensator module



([www.goochandhousego.com](http://www.goochandhousego.com))

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



([www.ixblue.com](http://www.ixblue.com))

- LiNbO3 Modulators: Phase, Intensity and Polarization Switches and Scramblers up to 40GHz
- Wide wavelength selection – 780nm - 2µm
- Modulator Drivers and Bias Controllers
- Reference/Analog Optical Transmitters
- Sub-nanosecond Optical Pulse Shapers



([www.kylian.com](http://www.kylian.com))

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



(<http://www.lumentum.com>)

- **Active:** Transceivers/Transponders, Lasers/Receivers, Modulators, EDFAs, Photodiodes, Channel Monitors, ROADMs, AWG's, Gain Equalizers, Pump Lasers
- **Passive:** Filters, Circulators, Isolators, Switches, Attenuators, Interleavers, Tunable devices



([www.monocrom.com](http://www.monocrom.com))

- Laser Diode Modules
- Laser Bar Assemblies
- Diode Pumped Solid State Lasers
- Laser Electronics



([www.nicslab.com](http://www.nicslab.com))

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



([www.nuphoton.com](http://www.nuphoton.com))

- 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



([www.optoscribe.com](http://www.optoscribe.com))

- FCX – Fiber coupled InterconneX
- 3D Optofan Series
- 3D MMux Photonic Lantern



([www.sercalo.com](http://www.sercalo.com))

- Optical MEMS switches and VOAs
- Switches: SM, MM, 1xN and MxN
- S2-D Galvanometers
- Rackmount, benchtop and component

## Optical Test and Measurement



([www.aragonphotonics.com](http://www.aragonphotonics.com))

- High Res OSAs – 10MHz Resolution and 80 dB Dynamic Range
- C- and C+L Band
- Phase and Amplitude for Complex Modulation Analysis
- PDL, PMD analysis from your OSA



([www.bristol-inst.com](http://www.bristol-inst.com))

- Wavelength Meters – fastest on the market
- Operation available from 350 nm to 12.0 um
- Laser Spectrum Analyzers



([www.finisar.com](http://www.finisar.com))

- WaveShaper Family of Products (1ch – 16ch, C/L band)
- WaveAnalyzer – high resolution spectrum analyzer
- WaveShaper 1000/SP 1µm Programmable Single-Polarization Filter
- Ultraspan high-performance Optical Amplifiers
- LightSmyth Pulse-Compression Gratings



([www.generalphotonics.com](http://www.generalphotonics.com))

- Polarization Controllers, Scramblers and Analyzers
- PMD & PDL generators and emulators
- Polarization control and generator modules
- OCT modules and components (MDL, PD, Couplers etc.)
- OFDR-1000 Hi-Resolution Reflectometer
- OCA – Modular Optical Component Analyzer



([www.idphotonics.com](http://www.idphotonics.com))

- Optical Multi-Format Transmitter & Automatic Mach Zehnder BIAS Control
- Tunable lasers for C, L, C+L bands with narrow line widths < 100 kHz - standalone and high-density modules from 1 to 104 tunable sources, 1kHz narrow line width tunable
- Polarization maintaining multiplexer
- Optical DWDM decorrelator for XPoIM and Coherent systems test
- Low Cost Optical Spectrum Analyzer



([www.introspect.ca](http://www.introspect.ca))

- SerDes Tester and BERT Functions, Pattern Generator Functions - 8 or 32 lanes, up to 28 Gbps, handheld form-factor, USB Controlled, Software-Defined
- Transport testing according to SATA, USB 3.0, MIPI M- PHY/D-PHY/C-PHY
- MIPI DSI-2 Protocol Analyzer



([www.lunainc.com](http://www.lunainc.com))

- Optical backscatter reflectometer (OBR): -125 dBm sensitivity, up to 10 um resolution, zero deadzone, up to 2 km range
- C&L band optical vector analyzer (OVA): IL, CD, GD PMD, PDL
- Temperature and strain distribution measurements
- Tunable external cavity laser - low noise, highly linear, mode-hop-free from 1515 nm – 1565 nm, pm accuracy, sub-pm resolution



([www.polatis.com](http://www.polatis.com))

- High Density Optical Cross Connect Switches – non-blocking low loss, with optional integrated power meters, variable attenuators and touch screen displays
- Single Mode up to 384x384, Multimode up to 16x16
- Compact latching switch with 32/48 input ports to 16 output ports



([www.muquans.com](http://www.muquans.com))

- High Power Frequency Stabilized Laser Systems with PM Fiber (>1W, 1530,1590nm and 765,795nm)
- Micro-optic benches providing exceptional stability and flexibility. (wide choice of operating wavelengths)
- Frequency Doubling Module (765nm, 805nm and others upon request)
- Optical Frequency Transfer over Optical Fibers
- Absolute Quantum Gravimeter
- Mucllock – time and frequency reference with Frequency Stability for 1 day  $\leq 2.0 \times 10^{-15}$



([www.teraxion.com](http://www.teraxion.com))

- Tunable chromatic dispersion emulator, compensator
- Chromatic Dispersion Emulator (up to 45,000 ps/nm)
- Narrow line width tunable laser (<1 kHz)



formerly: JDSU

([www.viavisolutions.com](http://www.viavisolutions.com))

- Optical/Protocol Transport Test (400G)
- CFP/CFP2/CFP4/QSFP+/QSFP28
- Optical Switching, Mfg. Lab Test
- Optical Field Test, Fiber inspection and test



([www.xenanetworks.com](http://www.xenanetworks.com))

- Affordable Layer 2-7 Testing to 400G
- Applications: QoS, Benchmark Tests, Functional Test, Convergence, Service Validation, Security Testing, Open Flow



Discounted Test Equipment with Premium Support

([www.xsoptix.com](http://www.xsoptix.com))

- A Small Woman Owned Business Offering Distribution, Import and Reselling services
- Distributor for Finisar, ID Photonics, Aragon, Teraxion, eagleyard, monocrom, Sercalo, Kylia, Introspect, Pico, Optoscribe, Acacia, Axenix, Niclabs Muquans, and G&H



([www.yokogawa.com/tm](http://www.yokogawa.com/tm))

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