

## RF / mmWave Solutions



www.exoduscomm.com

- ◆ SSPA products feature LDMOS, GaN, GaAsFET discrete and Chip & Wire Hybrid technologies up to 50GHz
- ◆ Medium Power and Low Noise Amplifiers feature GaAsFET, GaN, and Chip & Wire technologies up to 51GHz



www.herotek.com

- ◆ Detectors and Limiters
- ◆ Comb Generators
- ◆ GaAsFet Amplifiers (Broadband, Low Noise, and Power)
- ◆ Down converters, Multipliers, Harmonic mixers, and Transceivers



Quartz Crystal Technology GmbH

www.kvg-gmbh.de/en

- ◆ Ultra-Low Phase Noise, Low-G Sensitivity, High Stability
- ◆ Precision Crystal Oscillators, OCXO, TCXO, VCXO, XO
- ◆ Frequency Modules and Custom Designs
- ◆ Crystal Filters and Precision Quartz Crystals



a Benchmark company

www.larkengineering.com

- ◆ Single Function (SFA) - Filters/ Multiplexers, Switches, Switch Filters, Filter Amplifiers, Power Amplifiers
- ◆ Integrated Microwave (IMA) - Up/Down Converters, RCVRs and XCVRs (UHF to W-Band), T/R Modules
- ◆ Multi-Function (MFA) - LRU's, SRA's
- ◆ High Speed Circuit and Substrate Design and Fab (LCP)



www.microtech-inc.com

- ◆ Waveguide Assemblies—Flexible and Rigid for Military and Aerospace as well as commercial applications
- ◆ Couplers, Rotary Joints, Terminations, and Components



www.nuwaves.com

- ◆ Miniature and ruggedized RF power amplifier modules
- ◆ Solid-state RF & microwave bidirectional amplifiers for demanding SWaP applications
- ◆ High Linearity and range extension with specific vendor Radio Compatibility
- ◆ Cybersecurity – Avionic Data Bus Protection



www.rec-usa.com

- ◆ SMT Coaxial Microstrip or Stripline Ferrite Isolators & Circulators covering 40MHz to 40GHz, Power 4KW and 120% BW – RFI specs to -100dBc & better
- ◆ Combiners, Couplers, Dividers and Mixers
- ◆ Space-qualified products
- ◆ Millimeter wave Components and Subsystems from 5GHz to 140GHz
- ◆ Mixers, Low Noise Amplifiers, Frequency Multipliers, Gunn and DRO Oscillators, Isolators, Circulators, PIN Switch Assemblies, Attenuators, Detectors, Multipliers, Upconverters, SATCOM, Communication and Radar Systems.



www.rsmicro.com

- ◆ High quality RF and MW filters—1 MHz to 50 GHz Military and Commercial Comms, Radar, ECM, and Cellular
- ◆ Filters with wide passbands and stopbands (1-4 GHz passband, stopband to 20 GHz, 1KW operation)
- ◆ Unique products: In-line bandpass filters with finite transmission zeroes, reduced size & wide band high power filters



www.timesmicrowave.com

- ◆ PhaseTrack assemblies – Phase critical - TF4 and SiO2 dielectric
- ◆ Miltech assemblies – rugged, low-loss 40 GHz, vapor-sealed, braided Nomex outer jacket with high density interconnect options
- ◆ Radiation Resistant, Light-weight low out-gassing assemblies to 40 GHz for Spaceflight and Ground test
- ◆ T&M - Silverline, up to 110 GHz (VNA), phase and loss stable, Clarity Series provides industry-leading performance up to 67 GHz

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## System & Chassis Solutions



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

- ◆ Leader in Flat Cable Technology, custom manufacturer of extruded FlexSil™ cables for ultra-high flex & extreme environments & temperature
- ◆ Flexible flat cables and assemblies for high performance motion, aerospace, military, medical and semiconductor manufacturing applications.
- ◆ Capable of millions of flex cycles.



[www.diamondroll-ring.com](http://www.diamondroll-ring.com)

- ◆ Maintenance-Free Long Life slip ring solution for mission-critical aerospace, defense, industrial and space applications worldwide
- ◆ High Current Handling with Low Signal Noise and High Data Transfer Rates
- ◆ Very Low Torque, Shock Resistant, High Rotational Speed, High Transfer Efficiency



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

- ◆ Engineering services including full product design
- ◆ Box build and PCBA services of military products
- ◆ Dedicated NPI PCBA lines for quick turn prototypes
- ◆ Component Risk Mitigation
- ◆ Military specification cable assemblies and harnesses
- ◆ On-site DLA QTSL testing lab and offers the full spectrum of DPA testing per military standards

- ◆ General purpose processing, I/O processing (including FPGA-based) cards
- ◆ Technology building blocks for computing infrastructure and payload processing requirements
- ◆ Form Factors—MicroTCA/AMC, VPX, PCI Express, FMC/XMD



[nat-us.com](http://nat-us.com)

## Test and Measurement Solutions



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

- ◆ Software tools using 1149.1 (JTAG) for PCB functional testing, debugging, and in-system programming of Flash memory, CPLDs, and FPGAs
- ◆ Device Anti-counterfeiting software
- ◆ Serial bus analyzer and exerciser products (SPI, I2C, etc)



[www.focus-microwaves.com](http://www.focus-microwaves.com)

- ◆ Wideband fundamental and Harmonic Load Pull Tuners
- ◆ Pulsed IV/RF Characterization System delivers unparalleled performance
- ◆ Wideband noise parameters extraction
- ◆ Behavioral Modeling



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

- ◆ Millimeter Wave VNA System (CobaltFx)
- ◆ Frequency Extension for Vector Network Analyzers, Antenna Measurement, Spectrum and Signal Analyzers, Signal Generators, and Noise Figure Analyzers
- ◆ Passive Imaging & Radiometers
- ◆ Frequency Extension Calibration



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

- ◆ 150, 200 and 300mm Manual, Semi-Auto, and Full-Auto
- ◆ DC and RF (up to THz) Probing
- ◆ Vacuum and Cryo Probe Stations
- ◆ Power Systems, up to 10kV

## Optical Solutions



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

- ◆ Microwave Transmitters, Receivers, Lasers and Photodiodes
- ◆ Fiber Optic Delay Lines and RF Fiber Optic Links up to 60 GHz
- ◆ Micro Erbium Doped Fiber Amplifiers (EDFA)



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

- ◆ Network and Deployable Small Form Factor Spectrum Analyzers—5G, SIGINIT, TSCM
- ◆ Software Defined Real-Time Spectrum Analysis up to 27 GHz, 100 MHz real-time BW
- ◆ E300 Enabler for Keysight 89600 VSA Complete Vector Signal