

## RF / mmWave Solutions

### **CERNEX, Inc.** **CernexWave**

[www.cernex.com](http://www.cernex.com)  
[www.cernexwave.com](http://www.cernexwave.com)

- ◆ Attenuators, switches, limiters, detectors, mixers
- ◆ Oscillators & noise sources, phase shifters
- ◆ Ferrites —isolators & circulators
- ◆ Antenna products



[www.nuwaves.com](http://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.exoduscomm.com](http://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.rsmicro.com](http://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.kvg-gmbh.de/en](http://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



[www.bench.com/lark](http://www.bench.com/lark)

- ◆ 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.timesmicrowave.com](http://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



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

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



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

- ◆ RF directional couplers, splitters, combiners, hybrids
- ◆ Passives up to 26.5 GHz
- ◆ Resistive power dividers /combiners

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## Optical Solutions



A Photonics Foundries Enterprise

[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)

## 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.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



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

- ◆ Network and Deployable Small Spectrum Analyzers to 27 GHz
- ◆ Software Defined Real-Time Spectrum Analysis, 100 MHz real-time BW
- ◆ Up/downconverters/tuners for 5G

## System & Chassis Solutions



ACT Now for Superior Power

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

- ◆ AC-DC, COTS, DC-DC Power Supplies
- ◆ MILITARY Grade Aerospace (MIL-STD-704), Shipboard (1399), Ground (1275), Comms, 810, 461 and MIL-S-901
- ◆ Up to 35,000 VDC; Single/3 phase power factor conversion—power factor 0.99 and THD of <3%



[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
- ◆ Custom Functional Test Design
- ◆ 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)



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

- ◆ Rackmount & Rugged Systems
- ◆ OpenVPX, 3U-6U chassis, boards, backplanes and accessories
- ◆ High-speed architecture backplane and board profiles per VITA 65 (VITA 65.0 & 65.1) Extension to VITA 46 to ensure compatibility

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