



Telemetry & RF Products

- Space-borne RF subsystems for **STDN, SGLS, USB**
- Space-borne high data rate Ka band transmitters
- Space-borne crypto
- **InControl** Software for satellite and ground system control and automation
- Airborne and ground based encryption and decryption, airborne data acquisition products



Narda Microwave - West

- Space-borne RF Up/Down Converters. Multi-Pack configuration
- Space borne diplexers, multiplexers, channel Amplifiers, and beacon transmitters
- Custom integrated microwave assemblies



- Waveguide and coaxial components including Attenuators, WG to Coax adapters, couplers, feedthroughs, phase shifters, flex and rigid WG assemblies
- Frequency coverage to 50 Ghz from Commercial,
- Mil-spec and Space-level qualification.



- Metal 3D printed custom antennas 1GHz-100GHz
- Antenna arrays, Feeds and Sub-reflectors
- Space Qual, Air-borne, Ground

Giga-tronics

- **TEmS** real-time Threat Emulation Test System
- Multi-Platform Threat Emulation System
- Real-Time Synthesizers



- Open architecture recorder systems for ELINT/COMINT/SIGINT
- COMINT Portable dual & quad channel tunable transceivers
- ELINT ultra-wideband spectrum processors
- RADAR Simulation, HF Processing, RF/IF recording/playback



- Full motion antenna systems at S, C, X, Ku, and Ka Band
- Low and high rate modems for TT&C and payload down-link processing
- Complete turnkey ground stations



- **satTRAC**: Software-defined modems
- **softFEP**: Front End Processors, Recorders, and Gateways for reconfigurable signal processing
- **inSIGHT**: Data Acquisition and Processing Systems



- Complete turn-key switching systems—Digital, RF, Microwave
- Analog and serial digital video routers
- Switch control and monitor software RouteWarePRO 4.0



- GPS Time and Frequency Systems
- Time Code Processors
- Microwave components - Ferrites, Oscillators, Integrated Microwave Assemblies (IMA's) for ground, Mil, and Space applications



- Rugged Positioning, Navigation, and Timing (PNT) sensors for Air/Ground/Maritime both commercial and SAASM
- Drone LiDAR Photogrammetry Systems



Microwave Photonic Systems, Inc.

RF over Fiber Links

- High SNR SFDR Analog Fiber Optic links to 50 GHz
- In-Building Repeater Systems
- Optical Network Cable Assemblies



RF/ Microwave Instrumentation

- Broadband Linear Class A Amplifiers 1 watt to 100,000 watts CW and Pulsed, DC to 40 GHz
- Laser Field Monitor systems
- Multi-tone Testers, Antennas, Directional Couplers
- Turn-key systems for **MIL-STD-461** and **IEC** testing

AR Modular RF

- Multi-band tactical amplifiers 30MHz—2GHz, 20-200W
- Amplifier modules for EW, Satcom, and industrial

SunAR RF Motion formerly Sunol Sciences Corporation

- Turntables, Towers, System Controllers, Antennas
- Positioners, Reverb Tuners



- EMC test chambers
- Anechoic material—pyramidal, tile, high power
- Doors for shielded rooms
- Antenna test chambers



- High Power CW and Pulsed Instrumentation Amps
- High Power Transmitters/Modulators
- Radar Receiver Protectors
- Integrated Microwave Assemblies (IMA's)



- Cell phone over satellite, deployable 3G / 4G LTE base stations providing secure, FCC approved wireless communications for government and industry
- Cellular engineering/SIGINT services for DoD, Intel, Federal State and Local Law Enforcement



- Vehicular, Manpack, Base Station & Shipboard antennas for Tactical, ECM, SATCOM etc. (2MHz—18GHz)
- Commercial antennas for 3G, 4G, 5G, LTE, Wi-Fi, Wi-Max, Mesh Networks and MIMO Applications
- Shock and Vibration Isolation
- Custom design, prototyping and manufacturing



- Accessories for tactical comms systems
- Amplified speakers, power distribution, battery chargers, vehicle mounting systems
- Build-to-Print integrated tactical comms suites



- Ground systems for UAV command/control and data D/L
- Airborne Ku/Ka band antennas
- Antenna positioners and controllers to 7 meters
- Broadband antennas .01—40 GHz



- Millimeter-wave components, subsystems and systems
- Antenna & Quasioptical components for space, ground and test
- Ka Band Up/Down converters, Test Translators for Wide-band Global Satcom (WGS)
- Millimeter Wave Antenna Design



- RF Filters (fixed & tunable)
- RF Switches, Switch Filters, Attenuators (electronic & manual control)
- Pin Diode Control Components



- Phase Stable Test & Measurement Cables DC—110 GHz.
- Flight & Space Qualified. Precision cables
- Industry Leading Groove Tube® technology



- CryptoSATA III 2.5" drives with military level AES 256-bit full disk hardware encryption
- Certified MSATA, M.2 SATA SSD
- FIPS 140-2 Validated—Certificate No. 2126
- Runs independent of System BIOS



- Compact, Deployable COMSEC Kits & Components
- NSA CSfC CL product manufacturer
- NIAP Common Criteria Certified / FIPS 140-2 Validated
- DUAL VPN Gateway/Single Device CSfC listed device
- Enterprise Class CSfC embeddable VPN Gateway modules
- Secure Executive Communications Kits

