



L3HARRIS | TELEMETRY & RF PRODUCTS

- Space-Borne RF Subsystems for **STDN, SGLS, USB**
- Space-Borne High Data Rate Ka band Transmitters
- Space-Borne Crypto
- Airborne and Ground Based Encryption and Decryption, Airborne Data Acquisition Products

mercury

- Mixed Signal Product Portfolio
- Up/Down Converters up to 110GHz
- IF to IF Converters, Digital IF Transceivers
- Tuners, Microwave Synthesizers
- RF SiP (System in a Package)
- RF SoC based Digitizers and Recorders

microwave photonics

- High SNR SFDR Analog Fiber Optic links to 50GHz
- In-Building Repeater Systems
- Optical Network Cable Assemblies
- RF DAS / Systems Engineering
- Delay Lines



Communications & Power Industries Beverly Microwave Division

- High Power CW and Pulsed Instrumentation Amps
- High Power Transmitters/Modulators
- Radar Receiver Protectors



Superior System Performance

- Metal 3D Printed Custom Antennas 1GHz to 100GHz
- Antenna Arrays, Feeds and Sub-Reflectors
- Space Qual, Airborne, Ground

GENERAL DYNAMICS

Mission Systems

- **TACLANE**® Type 1 certified encryptors
- **Sectéra**® Secure Voice Encryption
- **IP/SEC HAIBE**® Certified products for Layer 3
- **"E Series"** EDE-CIS Certified encryptors for Layer 2



- Full Motion Antenna Systems at S, C, X, Ku, and Ka Band
- Aperture Sizes 5.4M and larger (up to 24M)
- High Rate Modems for TT&C and Payload Downlink Processing
- Complete Turnkey Ground Stations



- **satTRAC**: Software Modems
- **softFEP**: Front End Processors, Recorders, and Gateways for Reconfigurable Signal Processing
- **inSIGHT**: Data Acquisition and Processing Systems
- **WAN-EX**: WAN-Express Multi-Gbps Real Time Data Transport



- Complete Turnkey Switching Systems — Digital, RF, Microwave
- Analog and Serial Digital video Routers
- Switch Control and Monitor Software RouteWarePRO 4.0



- **FIPS 140-2** Private Cloud Storage Systems
- Secure SSD and HDD Media
- Secure Data Storage Solutions
- Lyve Mobile Edge Storage Devices
- **FISMA & Common Criteria Certified**

integral™

- CryptoSATA III 2.5" Drives with Military Level AES 256-bit Full Disk Hardware Encryption
- Certified MSATA, M.2 SATA, NVME SSD
- FIPS 140-2 Validated—Certificate No. 2126
- Runs Independent of System BIOS

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RF/ Microwave Instrumentation

- Broadband Linear Class A Amplifiers 1 Watt to 100,000 Watts CW and Pulsed, DC to 40GHz
- 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
- DAS Antennas for Distributed Antenna Systems

WAVECONTROL

- Test Equipment for EMF Exposure Assessment
- EMF Meter
- Field Probes
- EMF Monitoring
- Personal Safety human exposure monitors



- Vehicular, Manpack, Base Station and Shipboard Antennas for Tactical, ECM, SATCOM, etc. (2MHz—18GHz)
- Commercial Antennas for 3G, 4G, 5G, LTE, Wi-Fi, Wi-Max, Mesh Networks, and MIMO
- Shock and Vibration Isolation
- Custom Design, Prototyping, and Manufacturing



- Frequency Monitoring and Security
- Drone Detection and Geolocation Systems
- Man-Portable Collection, DF, and Geolocation Systems
- "Blackbird" Next-Gen Analysis System



- Deployable SATCOM ground antennas
- Apertures from .9 to 4.2m in X, Ka, Ku band
- Available integrated base band network electronics
- Government, Military, First Responders, ENG, NGOs

smiths interconnect

- Ground Systems for UAV Command/Control and Data D/L *formerly*
- Airborne Ku/Ka Band Antennas
- Conformal Antennas
- Millimeter-Wave Subsystems, and Systems *formerly*
- Antenna and Quasioptical components for Space, Ground, and Test
- Millimeter Wave Antenna Design
- Microwave Components *formerly*
- Ferrites, Oscillators, IMA's
- Microwave Assemblies for Mil and Space Applications



- Phase Stable and Measurement Cables DC — 110GHz
- Flight and Space Qualified Precision Cables
- Industry Leading Groove® Technology



- Microwave Tuners 30MHz—70GHz
- RF Digitizers 30MHz—40GHz
- Upconverters and Transmitters 30MHz—44GHz



- 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



- Hardened RF shielded enclosures 3kHz—300GHz
- Fully customized to fit data type, power, height and color
- Light,transportable, up to -100dB attenuation

