



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



- Waveguide and Coaxial Components, including Attenuators, WG to Coax adapters, Couplers, Feedthroughs, Phase Shifters, Flex and Rigid WG Assemblies
- Frequency Coverage to 50GHz from Commercial
- Mil-Spec and Space-Level Qualification



- Versatile Up/Down Converters up to 40GHz
- IF to IF Converters
- Microwave Synthesizers



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



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



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



- 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



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



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



- 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





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 Applications

SunAR RF Motion *formerly Sunol Sciences Corporation*

- Turntables, Towers, System Controllers, Antennas
- Positioners, Reverb Tuners
- DAS Antennas for Distributed Antenna Systems



- EMC test chambers, RF shielded enclosures & doors
- Polystyrene absorber & RF shielding
- Mode stirring systems
- Antenna test ranges



- 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 Applications
- 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



- Ground Systems for UAV *formerly* Command/Control and Data D/L
- Airborne Ku/Ka Band Antennas
- Antenna Positioners and Controllers to 5.4 Meters
- Millimeter-Wave Components, Subsystems, and Systems *formerly*
- Antenna and Quasioptical components for Space, Ground, and Test
- Ka Band Up/Down Converters, Test Translators for Wide-band Global Satcom (WGS)
- Microwave Components *formerly* Ferrites, Oscillators, IMA's
- Microwave Assemblies for Mil and Space Applications
- GPS Time and Frequency Processors



- 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

