



**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



**L3HARRIS** | NARDA MICROWAVE-WEST

- Space-Borne RF Up/Down Converters, Multi-Pack configuration
- Space-Borne Diplexers, Multiplexers, Channel Amplifiers, and Beacon Transmitters



**L3HARRIS** | NARDA-ATM

- 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



**Microwave Photonic Systems, Inc.**

RF over Fiber Links

- 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



- 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



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



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





**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**

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



- Open Architecture Recorder System for ELINT/COMINT/SIGINT
- Portable Dual and Quad Channel Tunable Transceivers
- ELINT Ultra-Wideband Spectrum Processors
- RADAR Simulation, HF Processing, RF/IF Recording/Playback
- SONAR/Sonabouy Processing



- 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



**MISC Engineering, LLC**

- Accessories for Tactical Comms Systems
- Amplified Speakers, Power Distribution, Battery Chargers, Vehicle Mounting Systems



- **Orion** Persistent Tethered UAV for Surveillance and Comms
- **SAFE-T** Smart Tethering Station for UAVs



- Ground Systems for UAV 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
- Antenna and Quasioptical components for Space, Ground, and Test
- Ka Band Up/Down Converters, Test Translators for Wide-band Global Satcom (WGS)
- Millimeter Wave Antenna Design



- GPS Time and Frequency Systems
- Time Code Processors
- Microwave Components — Ferrites, Oscillators, Integrated Microwave Assemblies (IMAs) for Ground and Mil 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

