

L-3 Telemetry & RF Products



L-3 Advanced Technology & Systems

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Telemetry & RF Products



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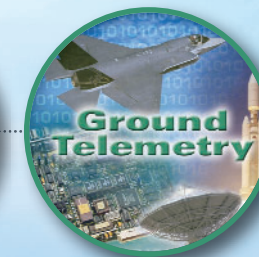
For over 50 years, L-3 Telemetry & RF Products has been providing products and systems solutions across a wide variety of governmental and industry markets.

From initial concept through design, manufacture, test and post-delivery field service support, L-3 Telemetry & RF Products divisions offer everything from commercial-off-the-shelf products to developmental design-in solutions.

- Spanning the RF spectrum from HF through Ka-band
- Digital designs for signal acquisition and processing at up to multi-gigabit rates
- Robust processes from pick and place to full environmental test to state-of-the-art clean rooms
- Packaging for severe environments — from oceans to the deserts, from launch vehicles to satellites
- Commercial and governmental information assurance and communications security
- Software solutions for real-time processing and visualization
- Lean Six-Sigma, ISO 9001 and AS-9100 certified

L-3 Telemetry & RF Products provides commercial, government, military and civilian customers worldwide with solutions for spacecraft, launch vehicles, aircraft, weapons, UAVs, ships, ground vehicles, soldiers and telecommunications infrastructure.

Let us help solve your most complex and demanding challenges.



L-3 Telemetry & RF Products Solutions



- Commercial, Civil & Military Satellite Communications
- Short/Long-Term Missions
- Information Security
- Payload Data Transmission
- Components & Systems

TT&C Transponders & Transceivers
Encryption | Mission Transmitters

- Stand-alone or embedded COMSEC solutions
- High data rate payload transmitters to 1.6 Gbps
- Numerous interfaces available
- DoD / NASA / ESA compatible
- Over 300 units flown
- NSA-certified/approved designs
- Flight-proven; radiation-hardened
- Numerous algorithm options available



- On-Orbit Operations
- Launch and Early Orbit Phase (LEOP)
- Factory Integration and Test
- Payload Monitor and Control
- Ground Monitor and Control
- Mission Planning

On-Orbit | Factory AI&T | HPAs
Satellite Command & Control Software & Hardware

- Fully customizable; platform-independent
- Robust – 100,000s of data points and control commands
- Expansion – flexible client/server architecture
- Automate – reduce risk and save cost
- Simplify – integrated HMI
- Secure – multi-level operations security
- Custom L- / S-band solid-state multi-kw high-power amplifiers



- SIGINT Systems
- RF Antennas and Receivers
- Signal Processing
- Systems Engineering

Wideband Antennas & Receivers | Signal Processing

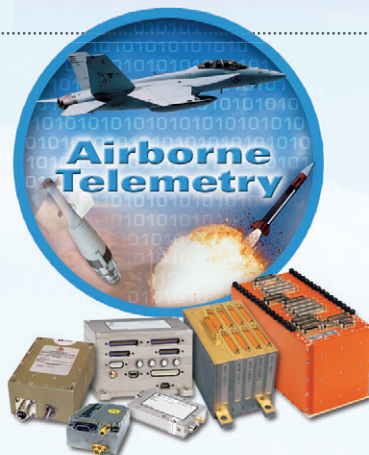
- Advanced antenna design
- SIGINT receivers
- Specific emitter identification
- Novel geolocation techniques
- RF polarimeter processing
- Software development
- Rapid prototyping



- ENTR: Embedded National Tactical Receiver
- Receipt of Near-Real-Time Intelligence
- Battlefield & Situational Awareness
- Threat Assessment Data
- Targeting & Re-Targeting Information

Tactical Receivers | Accessory Kits

- Smaller, lighter, lower cost
- Embedded or used with a standard PC/laptop
- Ruggedized
- Reprogrammable
- Embedded COMSEC
- Platforms: aircraft, ground, marine, missiles



- Weapon Flight Test Products & Systems
- Aircraft Flight Test Products & Systems
- Launch Vehicle Operations
- UAV Communications
- Test & Training
- Flight Range Safety

Data Acquisition | Receivers | Data Links
Encoders | Transmitters | Power Amplifiers | Video

- Modular products that are field-reconfigurable
- Stand-alone or embedded COMSEC solutions
- Data links up to 40 Mbps throughput
- Compact, ruggedized radio hardware
- Flexible GUIs for hardware configuration
- Enhanced decoding and flight termination capabilities
- Full network capability for iNET and other standards
- Superior image quality at high compression rates



- Flight Test Products & Systems
- Space & Launch Support
- Test Systems
- Data Acquisition
- Turnkey Systems
- Mobile Applications
- Tactical Radios

Bit Syncs | Boards | Receivers | Ground Decryption | Customer Support
Telemetry Systems: Avalon | System & Vista 550 | Vista | VTS

- Built on industry standards; easy to integrate
- Largest installed base in the world
- Automated turnkey systems
- High-speed real-time processing
- Single RF frequency encoders in single PCI form factor
- HF manpack, mobile and base radios
- Microwave radios — high capacity / wideband (up to 200 Mbps); frequencies from 3.7–15.3 GHz



- Combat Surveillance
- Situational Awareness
- Telemetry & Data Links
- Command & Control Uplinks

Digital Video | Receivers | Transmitters

- Video links with audio/data subcarriers
- Data links to 20 Mbps throughput
- L-, S- or C-Band operation
- 100 mW to 5 Watts RF output power
- Compact sizes for small and micro UAVs
- Low size / weight / power
- Highly reliable
- Digital modem solution – JPEG2000 CODEC for narrow channel operation



- Design and Deployment of Turnkey Systems
- Installation & Maintenance Services
- Training
- Extensive Product Support

Transcoders | Telecommunications Networks

- Voice compression equipment offering "toll-quality" voice, even at high compression ratios, and systems for efficient use of network bandwidth
- Broadband wireless networks supporting high-quality voice traffic and data services
- Network infrastructure equipment, including switches, routers and microwave links