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L-3 TELEMETRY & RF PRODUCTS

LEADER IN AIRBORNE & GROUND TELEMETRY

L-3 Telemetry & RF Products is a world-leading manufacturer of missile and aircraft flight test instrumentation, including airborne and ground telemetry products.

Our airborne telemetry and flight test products gather and process critical information aboard spacecraft, aircraft, missiles, guided weapons, targets and UAVs. Constructed to function under the severe conditions of space and military applications, our equipment also records the data and transmits it to receiving stations; then processes and displays it for technicians in the field.

Additionally, we are a premiere supplier of real-time telemetry and avionics ground processing products and solutions for aircraft, missile, launch vehicle and satellite, integration, test and operational support. We manufacture a wide variety of telemetry ground equipment, including receivers, complete computer controlled ground stations and a wide variety of support products servicing the Range Telemetry, Space Data, Signals Intelligence and Satellite Telemetry, Tracking and Control (TT&C) communities.

UPCOMING EVENTS

SMALL SATELLITE

When: 16-19 August
Where: Logan, UT

AUVSI

When: 24-26 August
Where: Denver, CO

SPACE CONFERENCE

When: 31-2 September
Where: Anaheim, CA

AIR FORCE ASSOCIATION

When: 13-16 September
Where: Washington, DC

FOCUS - JULY 2010

Published for customers of L-3 Telemetry & RF Products Group.

SEND FEEDBACK TO:

Focus.TW@L-3Com.com

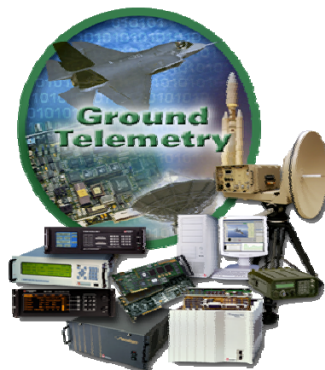


AIRBORNE TELEMETRY SOLUTIONS

Markets — Weapon Flight Testing, Aircraft Flight Testing, Launch Vehicle Operations, UAV Communications, Test & Training, Flight Range Safety

Products Offered — Data Acquisition Systems, Receivers, Data Links, Transmitters, Power Amplifiers, Video

- Modular products that are field-reconfigurable
- Embedded and stand-alone encryption
- Data links up to 40 Mbps throughput
- Compact, ruggedized radio hardware
- Flexible GUIs for hardware configuration



GROUND TELEMETRY SOLUTIONS

Markets — Flight Test, Space & Launch Support, Test Systems, Data Acquisition, Turnkey Systems, Mobile Apps.

Products Offered — Avalon, Bit Syncs, System & Vista 550, Boards, Receivers, VTS

- Built on industry standards
- Largest installed base in world
- Easy to integrate
- Automated turnkey systems
- High-speed real-time processing
- Full service Customer Support

Ground Telemetry



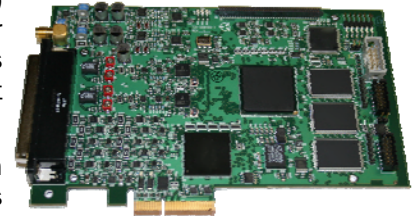
L-3 TELEMETRY-WEST INTRODUCES ITS NEXT GENERATION OF TELEMETRY MODULES - MFT-800

SAN DIEGO, CA., July 9, 2010 — L-3 Telemetry-West (L-3 TW) introduces the MFT-800 telemetry board. The MFT-800 is suited for quick-look application and flight-line checkout systems, as well as general purpose mission control configurations that support flight test, training and launch applications.

The MFT-800 builds on the success of L-3 TW's previous generation Multifunction Telemetry Module (MFT773A-PCI) by improving its performance in many key areas including data rates and bit error performance.

This fourth generation multi-function telemetry processor has been upgraded to a PCI Express™ compliant solution, providing a complete PCM telemetry ground processing system in the latest industry standard form factor. It is able to process either one or two data streams simultaneously and is approximately half the size of the MFT773A-PCI with more than double the throughput performance.

"By offering users improved performance, while simultaneously supporting the latest industry standards for PC connectivity, the MFT-800 allows users a telemetry processing architecture that can makes use of the latest host processors, thereby reducing risk and lowering overall lifecycle costs" said James Yates, L-3 TW Vice President of Business Development.



MFT-800 PCIe Telemetry Module

KEY FEATURES

- Dual stream design saves bus slots
- Bus-mastering DMA channels can support both input and output channels
- Extract clock and data from noisy PCM data streams at rates to 30 Mbps
- Decode, translate, or generate IRIG-A, -B, or -G time
- PCI Express™ Form Factor
- Status tag PCM input frames, including sync state, bit slip, CRC error detection
- Extract two asynchronous embedded frames or fully decommutate a primary and embedded stream
- Simulate telemetry data and formats to 40 Mbps

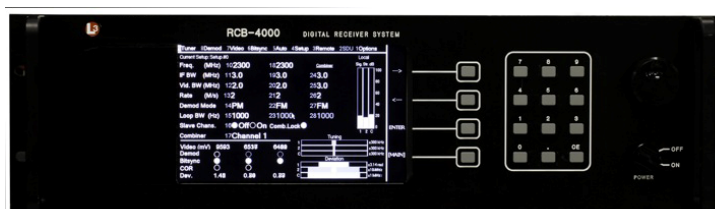
L-3 TELEMETRY-EAST ADDS SPEED, SECURITY, STORAGE, AND MORE TO GROUND RECEIVERS

BRISTOL, PA. July 9, 2010 — L-3 Telemetry-East (L-3 TE) is adding a new state-of-the-art display and computer board to its heritage line of RCB and DR Series ground telemetry receivers. These enhancements will deliver sharper resolution, faster startup, a more responsive interface, better network security, and ten times the storage space of the current models. The upgraded receivers will also feature USB support for system extensibility.

In addition, the upgrades have the capacity to support future enhancements such as touch screens, full-color displays, or a dual display for additional front panel monitoring.

"We are committed to maintaining our heritage receivers by upgrading their features and performance," said Terry Hamilton, L-3 TE Vice President of Ground and Telecommunications Products. "These improvements are being added while we are also moving forward with the development of our new telemetry receivers."

For more information, go to www.L-3com.com/TE.



RCB-4000 C-Band Ground Receiver

Airborne Telemetry

L-3 TELEMETRY-WEST'S PCM ENCODER DATA ACQUISITION SYSTEM

The PCM330E is a 4th generation, sub-miniature programmable data acquisition system, especially suited to today's small weapons and UAS tactical and flight test applications.

Delivering advanced capabilities to acquire, convert and process today's high data rate signals, the PCM330E provides a flexible, high performance platform, supported by state-of-the-art signal conditioning for the most demanding applications.

With its flight heritage based on the highly successful PCM300 & 600 families of data acquisition products (thousands have been provided for smart weapons, UAS and launch vehicle programs), the PCM330E brings unparalleled acquisition capabilities while continuing to set new standards for size, weight and power constrained applications.

Users may select from a large selection of acquisition and functional modules to develop a data acquisition solution that meets tough modern day requirements in a cohesive and flexible fashion. Special design constraints were considered to deliver unmatched capabilities for high speed serial data interfaces, video, and fast sample rate analog and discrete data acquisition channels.

Driven by customer demands for increased functionality, performance and channel density, the PCM330E is the encoder that customers are turning to when they need small size, high data rates, high performance tolerances and an unmatched history of successful in-flight performance.



PCM330E Encoder

KEY FEATURES

- Operation up to 40 Mbps
- User-programmable through PC interface
- Programmable signal conditioning
- Modular design for user reconfiguration
- Designed to interface with a large variety of functional modules

L-3 T&RF PRODUCTS REP FOCUS

EDGE CONSULTING AND SALES - AN AEROSPACE MANUFACTURERS' REPRESENTATIVE AND BUSINESS DEVELOPMENT COMPANY



Edge Consulting and Sales is a professional and highly technical manufacturer's representative organization on the West Coast. Edge offers a refreshing alternative for growing lasting relationships in the telemetry marketplace. They help companies to sell their products via an efficient and dynamic distribution channel. In addition to the standard outside sales services, Edge offers business and product strategy consulting, communication strategy, and market/competition analysis.

The relationship between L-3 and Edge has been extremely successful. They are passionate about the industries they represent which include: Aerospace, Defense & Technology.

Edge represents L-3 Telemetry & RF Products capabilities and products to customers in California, Oregon, Washington, and New Mexico. Their emphasis is on developing business development and customer focused strategies enabling principals to get beyond the confusion and increase sales.

Brad Fleury, Director of Sales for Southern California states, "There are countless firms that pride themselves on giving standard manufacturers representation. Very few can translate that service into action, let alone results."

The principles of Edge include: Brad Fleury, Director of Sales Southern California, Rob Tropa, Director of Sales Arizona & New Mexico and Greg LaScola, Director of Engineering Sales, Northern California.

For additional information about Edge Consulting, go to www.edgeconsultingandsales.com.

EDGE CONSULTING IS A PROUD MEMBER OF TSCC AND AIAA.

Spacecraft Ground Systems



L-3 TELEMETRY-WEST TO PROVIDE SATELLITE FLEET COMMAND AND CONTROL SOLUTION FOR ORBCOMM'S EXISTING AND GENERATION 2 SATELLITES

SAN DIEGO, CA., June 29, 2010 — L-3 Telemetry-West (L-3 TW) announced today that it has signed a contract with ORBCOMM Inc. to upgrade its Satellite Control Center (SCC) for the ORBCOMM Generation 2 (OG2) Program. The ORBCOMM SCC will be powered by L-3 TW's InControl™ software product, a robust system designed specifically to support satellite fleet on-orbit operations. InControl will provide core command and control functions for both ORBCOMM's original fleet, as well as the new OG2 satellites scheduled for launch at the end of 2010 or the beginning of 2011.

The OG2 SCC Upgrade Program will result in the largest satellite fleet controlled by InControl software, including 29 existing satellites and a minimum of 18 additional OG2 spacecraft. The delivered SCC will support up to 75 satellites and is expandable for more. The existing fleet of 29 satellites will be operational with InControl in the fourth quarter of 2010.

"The versatility and ability to seamlessly integrate L-3's InControl system into our existing SCC will allow ORBCOMM to continue our efforts to improve existing satellite performance and prepare for the upcoming OG2 launches," said John Stolte, ORBCOMM executive vice president.

"L-3 Telemetry-West is excited to be working with ORBCOMM, a truly forward-thinking satellite fleet operator," said Burt Smith, L-3 TW president. "The selection of L-3 for the OG2 SCC upgrade shows InControl's ability to operate a large fleet of satellites with a minimum of computer resources and personnel."

Key features of the InControl software include user-centric fleet management, straightforward database integration, rapid development and validation of command sequences, automated report generation, dynamic limit generation, and support for all phases of the new OG2 mission, including launch and early orbit. Archiving, archive retrieval and data analysis are also integrated within the functionality of the InControl software suite.

InControl®

L-3 GIVES BACK

L-3 TELEMETRY-WEST (TW) & SOUTHERN CALIFORNIA MICROWAVE (SCM) SUPPORT LOCAL CHARITIES

Daffodil Days — L-3 TW and SCM raised \$3,715 for the American Cancer Society Daffodil Days program. The money raised helps the American Cancer Society provide assistance to those facing cancer, save lives, and empower people to fight back against the disease.

The first flower of spring, daffodils are a symbol of hope for cancer patients and their families that one day cancer will be eliminated. The daffodil is the official flower of the American Cancer Society.

For more information go to, www.daffodil.acsevents.org

Season of Service, Honoring our Military — L-3 TW/SCM employees along with other local volunteers assembled 100 boxes for 40 female Marines stationed in Afghanistan.

The Season of Service is a 4-month program which 90+ local churches participate in to help the City of San Diego meet the needs of the local community during this time of budget crisis for the city. One of every six people in San Diego County is related to the military – as active, reserve, retired, dependent or civilian employee. It is one of the largest military concentrations in the world.

There are 4 areas of focus: Homelessness, Hunger, Mentoring and Military. Mayor Jerry Sanders attended the kickoff for this year's event. The Season of Service runs from May through August with a different focus each month.

For more information go to, www.sandiegocityfest.com/season_of_service



Daffodil Days

Give Daffodils, Save Lives™



military

Spacecraft Systems

RECENT LAUNCHES WITH OUR PRODUCTS ON BOARD

CAPE CANAVERAL, FL May 28, 2010 – Boeing [NYSE: BA] has acquired the first on-orbit signals from the Global Positioning System (GPS) IIF-1 satellite, the inaugural spacecraft is a 12-satellite constellation that the company is building for the U.S. Air Force. The signals indicate that the spacecraft bus is functioning normally and ready to begin orbital maneuvers and operational testing.

A United Launch Alliance Delta IV rocket launched the GPS IIF-1 satellite at 11 p.m. Eastern time on May 27 from Cape Canaveral Air Force Station. At 2:33 a.m., the satellite separated from the rocket's upper stage, and a ground station on Diego Garcia in the Indian Ocean received the first signals from the newest member of the Air Force's GPS satellite constellation. The Air Force 19th Space Operations Squadron and Boeing's Mission Operations Support Center in El Segundo, Calif., confirmed that the satellite is healthy. GPS signals from the spacecraft payload will be turned on for test purposes in the coming weeks.

GPS is the U.S. Department of Defense's largest satellite constellation, with 30 spacecraft on orbit. The GPS IIF satellites will provide more precise and powerful signals, a longer design life, and many other benefits to nearly 1 billion civilian and military users worldwide.

To read the full article, go to www.spacedaily.com.

L-3 Telemetry-West provided a CXS-810C Secure SGLS Space Transponder for this mission.





UNSURPASSED RELIABILITY AND FLIGHT-PROVEN HERITAGE IN SPACE



SGLS Secure Transponder
CXS-810C



SGLS/USB Secure Transponder
CXS-2000



Command Decryption Unit
CDU-100

L-3 is a proud supplier of secure communication and TT&C products to government and commercial customers worldwide. With more than 80 units put into orbit to date, our high-reliability flight-proven space products provide a complete solution for your mission needs. To learn more, go to www.L-3com.com/TW.

Telemetry & RF Products



L-3com.com

PEOPLE IN THE NEWS

L-3 TELEMETRY-WEST ENGINEER SPOTLIGHTED IN DIVERSITY/CAREERS MAGAZINE

SAN DIEGO, CA., July 9, 2010 — L-3 Telemetry-West (L-3 TW) Sr. Project Engineer, Elizabeth Mathew is spotlighted in the June/July issue of *Diversity/Careers Magazine*.

The article titled, “Communications Needs Create Challenging Job Opportunities” is highlighted in the *Engineering & Information Technology* focused issue. It profiles a dozen-plus diverse professionals from an array of companies detailing widely varying aspects of the communications field.

Ms. Mathew who has been with L-3 TW for over 6 years since starting as an intern, is quoted several times in the article which highlights her early exposure as a child to engineering.

She states, “I can remember being five or six years old and sitting with my dad in his lab on Saturdays.”

Today, *Diversity/Careers* and its companion website, www.diversitycareers.com, serve engineering and IT professionals who are women, African Americans, Hispanics, Asian Americans, Native Americans, people with disabilities and members of other diversity groups. Readers turn to *Diversity/Careers* for information on a marquee list of corporations, government agencies and NGOs seeking to recruit seasoned professionals and recent college graduates. For more information, go to www.diversitycareers.com.

To read the full article, go to www.diversitycareers.com/articles/pro/10-junjul.



Elizabeth Mathew
Sr. Project Engineer
L-3 Telemetry-West

L-3 TELEMETRY-WEST SMALL BUSINESS PROGRAM HONORED BY U.S. HOUSE OF REPRESENTATIVES

SAN DIEGO, CA., July 9, 2010 — L-3 Telemetry-West (L-3 TW) Small Business Liaison Officer (SBLO), Pearl Andrews was recently presented with a *Certificate of Congressional Recognition* for her outstanding leadership for encouraging and promoting the struggling small businesses community of Southern California. The certificate signed by congress member Loretta Sanchez was presented to Ms. Andrews at a recent San Diego Supplier Development luncheon.

L-3 TW is a 20 year member of the Supplier Development Council which is committed to improved procurement and subcontracting through programs that attract emerging and underutilized small businesses.

“It has always been my vision to ensure L-3 TW was a visible and viable player in the small business arena,” said Ms. Andrews. “It’s important to look for small companies that have the commodities L-3 TW needs.”

L-3 TW has also been recognized by the Department of Defense - Western Regional Council, which encompasses California, Nevada and Hawaii. This council is comprised of representatives from large prime contractors and Government agencies that have recognized L-3 TW as a leader in small business partnering. For more information, go to www.SDSCD.org



Pearl Andrews
Small Business Liaison
L-3 Telemetry-West

L-3 TELEMETRY-WEST’S RICH BUTTS CHOSEN AS NEW GENERATION SPACE LEADER FOR L-3 COMMUNICATONS

SAN DIEGO, CA., July 9, 2010 — L-3 Telemetry-West (L-3 TW) Director of Space Engineering Rich Butts was chosen as L-3’s New Generation Space Leader at the National Space Symposium in Colorado Springs, Co. this past April. Mr. Butts was chosen from a committee of L-3 executives who represent a half dozen L-3 divisions that do business in the space sector.

The organizers of the symposium, The Space Foundation, is committed to helping the space industry attract and retain talented up and coming leaders for this industry. Part of this is to provide new generation space professionals the opportunity to learn from senior space industry leaders.

The program engaged participants in a multi-dimensional agenda including speed mentoring, workshop sessions, keynotes, Q&A, interactivity, social networking and receptions.

For more information, go to www.2010.nationalspacesymposium.org



Rich Butts
Director of Space &
RF Engineering
L-3 Telemetry-West

Q & A WITH L-3 TELEMETRY-WEST

L-3 Telemetry-West's (L-3 TW) Vice President of Mission Assurance is Andrew Hamelynck. We asked Mr. Hamelynck about the new Mission Assurance organization at L-3 TW.

Question: What is the charter of Mission Assurance?

Answer: Mission Assurance (MA) was established at L-3 TW to ensure we consistently deliver quality products. This is achieved through the identification of core process needs, review and correction as required to meet the requirements of the markets we serve, through training on those processes, measuring results, and ensuring continued disciplined process adherence. In addition, we are establishing a culture of continuous improvement by providing Lean Six Sigma tools and training.

Within MA there are six primary functions: 1) Quality Engineering, 2) Manufacturing Engineering, 3) Supplier Quality, 4) Inspection (Receiving and Line), 5) Audit Support, and 6) Continuous Improvement. These functions work cross-functionally ensuring appropriate processes are in place to reduce errors and eliminate waste throughout the value stream of the entire business.

Question: How does MA interface with the rest of L-3 TW and share resources and processes?

Answer: Mission Assurance works closely with all functional departments, providing support in several ways. The most obvious example is the Continuous Improvement function which leads our Lean Six Sigma program. They assist in identifying high leverage projects, assembling cross-functional teams, training those team on utilizing DMAIC framework all the while working hands-on to address subject process or product issues. Equally important, our staff has worked extensively with other departments to address known process inadequacies using Lean Six Sigma, Mistake-Proofing, Root Cause/Corrective Action and CMMI.

Question: What advantage does that bring to our customers?

Answer: Ultimately, our customers benefit from this through improved product quality and reliability, reduced lead-times, and competitive costs., This positions us to be the most trusted source of RF & Telemetry products. Additionally, as we reduce errors and waste in each of our processes, the business can re-deploy resources to the development of next generation products aimed at ever evolving market needs.

Question: What are you most proud of over the last 24 months?

Answer: The achievements of the first wave of LSS projects are really the most impressive example to date of the power of cross-functional teams applying the Lean Six Sigma tools. We understand true root causes of poor performance and develop process improvements yielding immediate, dramatic results.

Other results include the cross-function efforts involved in bringing up our new automated SMT line. The stockroom implemented bar-code scanning and rack/row/bin inventory management as well as the additional supplier oversight implemented with the Business Partner Council.

While many of these major activities were triggered due to customer concerns, our ability to bring considerable resources and apply a formal root cause and corrective action process, enabled us to quickly re-establish credibility with key customers, many of whom have increasing trust and confidence in our ability to meet their increasing reliability flow-downs.



Andrew Hamelynck
VP of Mission Assurance
L-3 Telemetry-West



Telemetry-West

**Improved Quality + Quicker Cycle Time + Reduced Costs =
A Satisfied Customer**



Telemetry & RF Products

Today, L-3 Telemetry & RF Products serves commercial, military and civilian customers worldwide with a product offering that includes TT&C satellite transponders, satellite command and control software, high-power amplifiers, high-reliability receivers/transmitters, encryption/decryption units, video compression/decompression units, tactical intelligence UHF/HF and microwave radios, telemetry ground system components and solutions, specialized telemetry and surveillance products, telecommunications products and specialized networks, and advanced technologies in SIGINT, SEI, and Geolocation.

L-3 Telemetry & RF Products Group is made up of the following companies:

ADVANCED TECHNOLOGY & SYSTEMS

SOUTHERN CALIFORNIA MICROWAVE

TELEMETRY-EAST

TELEMETRY-WEST



L-3 Advanced Technology & Systems

355 Ravendale Drive | Mountain View, CA 94043

Phone: 650-961-9400 | Website: www.L-3com.com/ATS

L-3 Advanced Technology & Systems is a provider of SIGINT Systems Engineering, Specific Emitter Identification, Novel Geolocation Techniques, RF Polarimeter Processing, Technical Studies & Analyses, Software Development, and Rapid Prototyping.



L-3 Southern California Microwave

2732 Via Orange Way, Suite E | Spring Valley, CA 91978

Phone: 619-670-3414 | Website: www.L-3com.com/SCM

L-3 Southern California Microwave is a leading manufacturer of microwave transmitters, receivers, power amplifiers, repeaters and antennas for military test ranges, UAVs, RPVs, UGVs, robots and law enforcement agencies. Additionally, L-3 SCM provides standard FM PCM telemetry systems.



L-3 Telemetry-East

1515 Grundy's Lane | Bristol, PA 19007

Phone: 267-545-7000 | Website: www.L-3com.com/TE

L-3 Telemetry-East is a preeminent supplier of airborne telemetry products and systems for the aircraft and missile flight test, airborne telemetry and ground receiver markets. Additionally, L-3 TE is a worldwide supplier and integrator of quality telecommunications products and end-to-end communications solutions.



L-3 Telemetry-West

9020 Balboa Ave | San Diego, CA 92123

Phone: 858-694-7500 | Website: www.L-3com.com/TW

L-3 Telemetry-West is a premier provider of tailored flight hardware and systems solutions for missile, UAV and spacecraft telemetry, tracking and control (TT&C); software & HPAs for satellite command & control; COTS telemetry ground system solutions; tactical intelligence receivers; and terrestrial HF and microwave radios.

How do we measure up? www.L-3Com.com/TW/VOC