A guide to key products and services showcased at SATELLITE 2012 exhibition in Washington, D.C. from March 12-14, 2012.

AAE Systems
www.aaesys.com

AAE Systems, Inc. is a global development design, engineering, procurement, construction, project management, and services company. AAE has a world-renowned reputation for being a trusted and reliable partner for deploying complex communications and infrastructure solutions from end to end.

As a satellite communications industry leader, AAE provides innovative and cost-effective voice, video and data solutions that meet and exceed the operational needs of customers. With nearly 30 years of experience in satellite communications and systems integration, AAE addresses a broad range of business segments, designing broadband networks; fixed, mobile, and portable satellite systems and terminals; backhaul links; mobile; teleports and data centers; and turn-key communications solutions for application across a wide variety of industries.

AAE is recognized for excellence in the timely delivery of custom, complex, mission-critical solutions. It has extensive experience creating applications for customers in military, defense, homeland security, government, disaster response, banking, telemedicine, education, and various commercial and non-governmental organizations. AAE’s engineering, design, procurement, and project management teams collaborate with customers from concept to completion, ensuring a comprehensive end-to-end solution characterized by superior reliability, performance, usability, and security.

Advantech Wireless
Booth no. 1231
www.advantechwireless.com

Advantech Wireless, a Canada-based manufacturer of satellite, RF and microwave equipment is showcasing the newest generation, lowest cost, most fully functional and software upgradeable VSAT solution in the market, the Discovery Hub. Guests can learn, see and touch the new Hub at the Satellite 2012 show at Booth # 1231.

The Discovery Hub which has received substantial market response includes powerful standard features and easy software selectable upgrades to enable customers to increase capacity with their demand thereby minimizing CAPEX and OPEX with the ability to upgrade in an instant. Advantech Wireless will also present details of its world leading, state-of-the-art Solid State Power Amplifiers featuring GaN technology – the smallest, lightest, highest power amplifiers available today, at the best price.

ATCi
Booth no. 844
www.atci.com

ATCi enhances its customers’ opportunity for profit by providing custom global satellite communications systems and services. The company is committed to delivering innovative technologies to meet the emerging needs of cable television, corporations, government, educational institutions and small- and medium-sized enterprises. ATCi is headquartered in Chandler, Arizona with operating sales offices in North America and China.

For over 20 years, ATCi has been the world leader in multi-beam technology and the ATCi proprietary Simulsat multi-beam has been providing programming to over 30 million cable subscribers in the U.S. market and abroad.

For further information on ATCi products and services, please call +1-480-844-8501.

Amos - Spacecom
Booth no. 667
www.amos-spacecom.com

Spacecom operates the AMOS satellite fleet, currently consisting of the AMOS-2, AMOS-3 and AMOS-5 satellites. AMOS-2 and AMOS-3, co-located at the 4°W "hot spot" orbital position, deliver a wide range of communications and broadcasting services to Europe and the Middle East. AMOS-5, located at the 17°E orbital position, offers a pan-African C-band beam, connecting Europe and the Middle East alongside three Ku-band regional beams, enabling it to be a prime carrier of African traffic in both broadcast and data services. With the launch of the AMOS-4 and AMOS-6 satellites, Spacecom will expand its reach to serve additional markets, including Asia.
and Russia, positioning the company as a genuine multi-regional satellite operator.

**AVCOM of Virginia**  
Booth no. 354  
www.avcomofva.com

AVCOM is an industry leader of affordable test equipment within the satellite communications industry. For over 25 years we have produced rugged, easy to use products that have become the standard for companies small and large.

At the Satellite show, AVCOM of Virginia will be highlighting its new SBS-2 Single Board, an upgrade of its very successful AVCOM SBS Single Board Spectrum Analyzer. The SBS-2 comes with more features in an even smaller, more compact form factor than it's predecessor.

**AvL Technologies**  
Booth no. 445  
www.avltech.com

AvL Technologies designs and manufactures mobile, motorized antenna systems and positioners featuring high performance carbon fibre reflectors, auto-acquisition controllers, and the unique AvL cable drive system. Ideal for small aperture antennas, it boasts zero backlash, high stiffness, light weight ruggedness, reliability, and cost effectiveness. AvL has designed and developed SNG antennas for 1.0M, 1.2M, 1.4M, 1.6M, 2.0M and 2.4M apertures and a diverse product line of rugged motorized FlyAway packages, many available in back-pack configurations, some as small as to meet airline requirements for cabin baggage. AvL, now recognized as the leading producer of SNG antenna systems in the USA and fast becoming known worldwide, developed the first motorized, auto-acquisition Mobile VSAT antenna system designed specifically for IP broadcast. AvL has over fifteen thousand high-quality antennas for C-band, X-band, Ku-band, DBS-band, and Ka-band in service throughout the world for SNG, military, emergency communications, disaster management, mobile medicine, and other specialty applications.

AvL is now offering three-year warranties on its 2012 mobile VSAT antennas.

**Cobham Tracstar**  
Booth no. 601  
www.cobham.com/tracstar

**Cobham TracStar Land Systems** is an international provider of mobile satellite communications technology to Government (military and civil), Commercial Media, Energy and Mining, and Enterprise markets. We have a comprehensive offering of products and services including Comm-on-the-Move, Comm-on-the-Pause, and Man-Packable antenna systems delivering video, data and voice connectivity worldwide.

The TracStar LVT Series of Manual Backpack Terminals provides a heavy duty, ruggedized, self-contained mobile system designed for easy portability and field-swappable Ku-, Ka- and X-band operations. Pictured here is the LVT 750P8, with an 8-segment carbon fiber reflector and tripod. BUCs, LNBs, and manual pointing tools for smartphones are also available.

For more information, contact Cobham at +1 (407) 650-9054 or sales@tracstar.net.

**Comtech Xicom Technology**  
Booth no. 709  
www.xicomtech.com

Comtech Xicom Technology, Inc. continues to be the world’s leading SATCOM power amplifier supplier, offering the broadest product line in the industry. For more than 20 years, our focus on customers, innovation and quality has created a tremendous breadth of products and established a company with a reputation for excellence.

Comtech Xicom is introducing a new line of compact, high efficiency, TWTAs that yield 400W performance in a 200W package and 750W performance in a 400W package. The XTD-400KHE high power amplifier is in a compact, rugged package weighing only 32 pounds. Drawing only 860W at 185W of linear RF output power, the amplifier is ideal for transportable applications where high efficiency, light weight, and high ambient temperature operation are required. The XTD-750HE consumes only 1450 Watts at 400W of linear output power and is an ideal upgrade for existing 400W systems.

Comtech Xicom Technology’s new HPAs will help you achieve your green goals.

- As much as 50% Space Savings
- Up to 40% Lower Power Consumption
- One-Third Lighter than Traditional Amplifiers
DEV America offers a complete range of leading-edge, high-performance products and systems for the optical and electrical transmission of RF signals via coaxial cable or fiber for satellite, cable, and broadcast television head ends.

From Dish to Rack and Back, DEV products include: distribution amplifiers; splitters and combiners; switching systems; distributing matrices; routing products; multiplexers and fiber-optic RF signal transmission systems.

All products are built to meet the highest standards of system availability, reliability and controllability.

Benefits from integrated RF and fiber optic transport through DEV’s OPTRIBUTION® approach to signal distribution infrastructure in satellite facilities and CATV head-ends include improved signal quality and reliability, reduced rack space, power, and heat consumption. Easier and simpler M&C requirements help satellite headends, teleports, and uplink facilities save on costs and overhead.

Among the features and options available with the DEV L-Band Distribution Systems that make them a favorite choice for satellite ground stations are: easy control and adjustment of variable gain, RF thresholds as well as LNB-bias current via SNMP or Web browser interface, hot-pluggable and upgradeable amplifiers, and multiple independent power supplies.

DEV’s new CFP (Core Function Products) series of RF Switches, Combiners and Splitters, signal routing and distribute RF signals in earth stations and head ends offer up to 70% cost savings by streamlining devices down to core features.

Globecom’s 1m/1.2m LT (Lightweight) Auto-Explorer Multimedia Transportable Satellite Communications Terminal provide high-bandwidth, cost-effective two-way communications designed to meet the demands of military units, governmental agencies, corporations, and other organizations to extend the reach of their networks to remote locations where traditional telecommunications infrastructure is either inadequate or non-existent. Applications include voice, fax, data, video, Internet and LAN-to-LAN connections.

Options include:

- Single, Dual, Tri-Band Configurations (X, Ku, Ka)
- Outdoor Modem Configuration
- Eliminate L-Band Cabling
- Supports Select iDirect, HNS
- Indoor Rack Mount Configuration
- Supports any L-band Modem
- Baseband Enclaves (SIPR, NIPR)

Whether the need is remote communications, live videoconferencing, surveillance or reconnaissance, this lightweight solution can be deployed in a matter of minutes.

GE Satellite is the only US based operator to provide international fixed satellite services. Leveraging the GE-23 satellite, we deliver superior service, exceptional media and data capacity, and flexible coverage for our clients in a wide variety of sectors across the entire Pacific region.

O3b Networks Ltd is building a next generation network that combines the reach of satellite with the speed of fiber. O3b’s groundbreaking services will enable emerging market telcos and ISPs to make the internet a truly global and universal experience.
O3b stands for the 'Other 3 billion', a reference to nearly half of the world's population living in markets that are not adequately served with broadband internet access or mobile phone services.

With world-class financial and operational support from investors, O3b is creating a global internet backbone to serve several billion consumers, businesses and other organizations in 177 countries.

O3b became fully financed in November 2010 and Arianespace will launch the first eight satellites in the first half of 2013 with a Soyuz launcher from French Guyana.

The O3b satellite constellation will deliver on its promise to its customers by enabling them to cut down on the cost of transmission. While traffic in urban and sub-urban areas justify the transmission costs of fiber optic and microwave transport networks, the same cannot be said for rural and remote areas.

Walton De-Ice designs and manufactures the broadest line of equipment available for preventing the accumulation of snow and/or ice on satellite earth station antennas.

Walton De-Ice offers several options for heating including, gas heaters with their economical operation advantages or the low maintenance Stainless Steel Electric Heaters.

At Satellite 2012, Walton De-Ice will be providing demos of its Ice Quake System configured to conform to military requirements.

The Ice Quake system (U.S. patent pending) enhances the reliability of de-ice and snowshield systems by a factor of 100 percent.

Wavestream sets the standard in the design and manufacture of next generation high power solid state amplifiers. Wavestream’s family of C-, Ku-, Ka- and X-band Solid State Power Amplifiers (SSPA) and Block Upconverters (BUC) provide systems integrators with field-proven, high performance, high reliability solutions designed for mission-critical satellite communications systems worldwide.

By leveraging Wavestream’s Spatial advantEdge™ technology across all our product platforms, we are able to consistently deliver indoor and outdoor amplifiers with greater reliability and efficiency, in smaller, lighter product packages. For integrators and operators, this translates into reduced energy and maintenance costs over the lifecycle of the system.

Wavestream has shipped thousands of our Ka- and Ku-band products to support military ISR, first responders, Comms-on-the-Move, Comms-on-the-Halt, flyaway, and fixed satellite communication systems. Our product line has expanded to support X-band SATCOM requirements. We also offer a growing line of PowerStream® C- and Ku-band amplifiers for broadcast SATCOM systems, including VSAT, Satellite News Gathering (SNG), and teleport applications.

At Satellite 2012, WORK Microwave will introduce the company’s latest, new-generation DVB-S/S2 modulator featuring multistream technology. The high-speed modulator with up to six multistream inputs and 50-180MHz and/or 950-2150MHz L-Band output is ideal for fixed satellite ground stations as well as for SNG vehicles, fly-aways, or any other mobile or portable applications. The product supports DVB-S2 transmissions in variable coding and modulation (VCM) mode to ensure the highest transmission throughput at all times.

The new improved design of the modulator includes features such as:

Multistream Technology — Users can now aggregate up to six independent transport streams into one satellite carrier in a fully transparent manner. Multistream technology does not
modify the original data streams, maintaining the integrity of the original content. Also, fewer modulation devices are required, reducing both operational expenses and capital investments for users.

Transport Stream over IP (TSoverIP) — In addition to the known ASI interface, the updated modulator now also offers transport over IP. Users can use existing network infrastructure to transport video data.

Enhanced User Interface — The powerful, easy-to-use, and intuitive user interface now supports easier access to all the new features introduced with this product update.

At Satellite 2012, Xiplink will be showcasing its XipLink Real Time (“XRT”) capabilities. XRT is a new optimization capability that compresses, coalesces and prioritizes VOIP, Skype or other small packet UDP traffic types for significantly more bandwidth and packet efficiency without compromising quality. XRT can provide bandwidth savings up to 50% and dramatically improve the packet/second perf-}

formance of most modems by 2 to 10 times the current packet rate. XRT optimizations are now included with all XipOS 3.2 and higher releases.

Xiplink is also demonstrating the award-winning XHO hub optimization technology, allowing Network Operators to immediately improve outbound web performance or reduce bandwidth costs by deploying a single device at the Teleport or Data Center without remote equipment or software. This hub side investment can then be leveraged into selected “bracketed” applications to take advantage of XRT, SCPS-standard TCP acceleration, Link Bonding and other optimizations available with Xiplink’s appliances or embedded systems.

For more information go to Xiplink's booth # 866 or visit their website at [www.xiplink.com](http://www.xiplink.com).

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Xicomp Technology is introducing NEW high power amplifiers and BUCs with radically improved efficiency that will help you acheive your green goals.

- As much as 50% Space Savings
- Up to 40% Lower Power Consumption
- One-Third Lighter than Traditional Amplifiers
- Transportable for On-the-Move SATCOM
- Optional RF Input and Waveguide Locations

**COMTECH**

Amplifier Quality & Reliability Since 1991

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