



■ A guide to key products and services showcased at Cabsat 2013 in Dubai, UAE from March 12-14 and Satellite 2013 in Washington, D.C. from March 19-21.

Advantech Wireless

Satellite 2013 Booth no. 5023

www.advantechwireless.com



**Advantech
Wireless**

Advantech Wireless is a world leader in Satellite Communications and Terrestrial Communications delivering equipment for thousands of systems for over 20 years. We are proud to present World-Leading Technology Solutions, to exceed your requirements and reduce your costs.

A-SAT™ and GaN: Big Savings in Energy, Size & OPEX.

A-SAT™ stands for Adaptive Satellite Access Technology. A-SAT™ is beyond dual mode RCS/TDMA-SCPC, developed by Advantech Wireless several years ago and well ahead of the competition. A-SAT™ monitors channel utilization and switches seamlessly the satellite access method and mod code for the return channel to dynamically maximize the space segment utilization efficiency.

Add to this Advantech Wireless World Leading High Power Amplifiers featuring GaN technology, and you have to most powerful, cost-effective Satellite communications solution.

Advantech Wireless GaN ADVANTAGES: Up to 50% Smaller, Up to 70% less power consumption, Up to 30% less heat generation, A five- to ten-fold improvement in satellite signal strength and data rates, Greater reliability, Best Noise performance in the market....enables higher order modulation 8 PSK and 16 APSK with less power...save OPEX, Best linearity and intermod performance.

A.G. Franz LLC

Satellite 2013 Booth no. 7115

www.agfranz.com

At Satellite 2013 two new test equipment analyzers from Narda Test Solutions (an L-3 Company) will be presented.

The **Narda Remote Spectrum Analyzer NRA** is a family of 19" 1RU rack mountable high speed test equipment that is easily integrated and remotely controlled in measurement environments. The fan-less design enables silent continuous operation. The wide bandwidth (9kHz to 6 GHz) of the NRA -6000 enables the operator to simultaneously monitor radio, cellular, LTE and WiMAX Signals. The NRA-3000 is capable to analyze signals from 9kHz to 3GHz for line-up and troubleshooting of satellites. It is also available with an inte-

grated LNB control making it ideally suited for satellite communication systems.



Narda Interference and Direction Analyzer

The portable, low-weight **IDA Interference and Direction Analyzer** is a highly sensitive signal analyzer, with an extremely fast sweep time at 12 GHz/sec and a real-time bandwidth of up to 32 MHz for intercepting short term signals. The unique smartDF direction finding mode manages triangulation results and automatically calculates emitter positions. These features are ideally suited to quickly localize interfering transmitters, as well as support close range reconnaissance and signal monitoring.

The IDA and the NRA are available in North America through A.G.Franz, LLC http://www.agfranz.com/products_narda.html

APT Satellite Company Ltd

Cabsat 2013 Hall 1 Stand no. A1-10

www.apstar.com



APT Satellite (listed company in The Stock Exchange of Hong Kong Limited, Stock Code: 1045) was founded and commenced its operation in 1992. APT Satellite currently owns and operates APSTAR in-orbit satellites covering regions in Asia, Australia, Europe, Africa and the Pacific—accounting for 75% of the world's population, and provides excellent quality "one-stop-shop" transponder, satellite telecommunications and satellite TV broadcasting and transmission services to broadcasting and telecommunication customers.

ARABSAT

Cabsat 2013 Hall 1 Stand no. D1-10

www.arabsat.com

ARABSAT as a satellite operator has been serving the growing needs of the Arab world for over 30 years. Now ranked the 7th top satellite operators in the world and by far the leading satellite services provider in the Arab world, it carries over 450 TV channels, 170 radio stations and 3 Pay-TV networks reaching tens of millions of homes in more than 80 countries across the Middle East, Africa, Europe—

and way beyond around the world—including an audience of over 170 million viewers in the Middle East and North Africa (MENA) region alone tuned into Arabsat's video "hotspot" at 26° East.

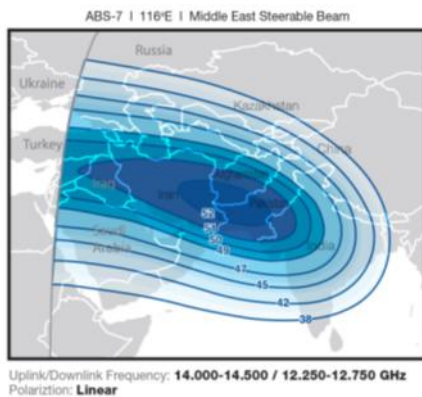


Operating a growing fleet of 6 owned satellites, and more yet to come, ARABSAT is the only satellite operator in the MENA region offering the full spectrum of Broadcast, Telecommunications and Broadband services. ARABSAT satellites' fleet is the youngest in the region with the highest possible reliability and flexibility. This translates to unrivalled in-orbit backup, as well as more space capacity than any other player in the region for more TV and radio broadcasting services, professional data network solutions, telephony and IP trunking backbone connectivity, and broadband Internet access for media and entertainment companies, corporate customers and government entities.

Asia Broadcast Satellite
Cabsat 2013 Hall 2 Stand no. A2-20
www.absatellite.net

At Cabsat 2013, **Asia Broadcast Satellite** will be showcasing its DVB-S2 platform. The ABS DVB-S2 Platform is an internet trunking service to deliver direct high-speed internet backbone connectivity via an IP managed network, ideal for telcos and ISPs that require direct connection to the Internet.

The AFG03 platform delivers up to 100Mbps into small antennas across the ABS-7 Ku-band beam with excellent access to the Middle East and North Asia regions. The ABS Bahrain teleport provides Tier 1 IP access with connections to multiple international networks. This winning combination provides unsurpassed high throughput capacity for the region with faster and more affordable connectivity to end users.



ATCi
Satellite 2013 Booth no. 5061
www.atci.com

ATCi offers complete systems integration and technical services. From front-end consulting, planning, to integrating, installing and managing technology solutions, ATCi has the depth and experience to respond to unique challenges and

opportunities. ATCi offers many products that offer customers expanded capacity, design excellence and value. ATCi's flagship Simulsat multibeam antenna has the capacity to receive signals from 35 satellites simultaneously. Other ATCi products include: uplinks, teleports, headend components, parabolics, test equipment, matrix switches, and satcom fiberoptics solutions. ATCi's Turnkey services: Teleport and Broadcast Services, Web-casting, Digital Headend Services, Uplink and Systems Integration. Contact ATCi: +1-480.844.8501.



AVL Technologies
Satellite 2013 Booth no. 3009
www.avltech.com

AVL Technologies designs and manufactures mobile, motorized antenna systems and positioners featuring high performance carbon fiber reflectors, auto-acquisition controllers, and the unique AvL cable drive system. Ideal for small aperture antennae, it boasts zero backlash, high stiffness, light weight ruggedness, reliability, and cost effectiveness.



AvL has designed and developed SNG antennae 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 backpack 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 in the first motorized, auto-acquisition Mobile VSAT antenna system designed specifically for IP broadcast. AvL has more than 18,000 high-quality antennae 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.

C-Com Satellite Systems Inc.
Satellite 2013 Booth no. 5067
www.c-comsat.com

At Satellite 2013, **C-Com Satellite Systems** will be showcasing its iNetVu® 981 Auto-Deploy Antenna. The iNetVu® 981 Drive-Away Antenna is a new generation 98 cm Ku-band auto-acquire satellite antenna system with a significantly improved pointing accuracy, lower stow height and lighter weight. It can be mounted on the roof of a vehicle for direct broadband access over any configured satellite. The system works seam-



lessly with the iNetVu® 7024 Controller providing fast satellite acquisition within minutes, anytime anywhere.

Cobham Tracstar
Cabsat 2013 Hall 2 Stand no. D2-44
Satellite 2013 Booth no. 4016
www.cobham.com/tracstar

The **Cobham EXPLORER 3075** manual point flyaway VSAT system is a lightweight, rugged, highly portable, and modular mobile terminal capable of X, Ku and Ka band operation. Its user-friendly design allows operators with minimal satellite experience to access broadband network services within minutes. Transport packaging consists of a single airline-checkable case. Cobham SATCOM, as an official launch partner of the Inmarsat Global Xpress® (GX) network, is offering models of the EXPLORER 3075 configured specifically for operation on both the GX commercial (1GHz) and wide-band (2GHz) services. Cobham SATCOM offers a diverse array of turn-key satellite terminals that fulfill critical communications needs and reduce system configuration requirements for end users. Systems are available as manual or auto-deploy configuration, and are organized in drive-away, fly-



Cobham Explorer 3075

away and comm-on-the-move (COTM) families. We specialize in assisting partners with integrated end-to-end solutions for rapid deployment to support markets and applications including Military, Homeland Security, Emergency Response, Law Enforcement, Media Broadcasting, Telemedicine, Remote Office Communications, Energy and Mining, and numerous IP-based services such as Voice, Radio, Data, Fax, and Live Video Transmission.

Comtech Xicom Technology
Cabsat 2013 Hall 2 Stand no. E2-31
Satellite 2013 Booth no. 7009
www.xicomtech.com

Comtech Xicom Technology Inc., in collaboration with a major military system integrator, has developed a compact and efficient GaN amplifier for X-band WGS service. Model XTSLIN-100X-B1 features 100W of WGS linear power in a compact 6.8" x 10.5" x 17" thirty-two pound package. Drawing less than 800W at linear RF output power, the amplifier is ideal for transportable applications where rugged, high efficiency, lightweight and high ambient temperature operation is required. The XTSLIN-100X-B1 includes an integrated BUC, output isolator and harmonic filter. This amplifier has been developed and is manufactured in the USA, facilitating military procurement and logistics.

It is the perfect solution for military users who need high power, high efficiency compact solid-state amplification.



**Comtech Xicom's
XTSLIN-100X-B1**

Comtech Xicom Technology, Inc., located in the heart of Silicon Valley, is 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 created a company with a reputation for excellence.

For more information contact: Comtech Xicom Technology, Inc., 3550 Bassett Street, Santa Clara, California 95054 U.S.A., Phone: +1-408-213-3000, Fax: +1-408-213-3001, e-mail: sales@xicomtech.com

EM Solutions
Satellite 2013 Booth no. 6126
www.emsolutions.com.au

EM Solutions is a world-leading company recognized for manufacturing technologically superior microwave modules and systems for next generation broadband communications at frequencies from L-band to Ka-band (1 to 40 GHz). It



demand.

Since 1998, the company has produced integrated RF modules used in low noise receivers and solid state high power transmitters for defence and commercial customers around the world. These sophisticated components form the core subsystems used primarily in microwave terrestrial and satellite links, or in other applications such as radar, radio-astronomy, and remote sensing. EM Solutions customer base includes more than 200 of the world's largest systems integrators and telecommunications companies. The company offers system-level design checking and validation, and an RF performance **guarantee**. It is a Defense accredited supplier and is ISO-9001 certified.

Its most sophisticated and world-leading systems, such as its Ka-band satellite on the move terminal, or Ku-band E1000 microwave radio link, are testament to the company's expertise in developing complex systems that also integrate multi-frequency antenna feeds, digital signal processing, filtering and demodulation, and firmware and mechanical control subsystems.

Gazprom Space Systems
Cabsat 2013 Hall 1 Stand no. F1-40
www.gazprom-spacesystems.ru



Gazprom Space Systems (formerly Gascom) is a private commercial, non-governmental satellite operator based in Russia. The main shareholder is Gazprom, one of the largest energy companies in the world. Gazprom Space Systems' orbital fleet consists of four satellites under the Yamal brand. Gazprom Space Systems' ground infrastructure consists of four teleports in the city of Moscow and in the surrounding Moscow region, which are connected to the main telecom backbones by means of fiber-optic lines. The company also has a wide network of earth stations across Russia.

In Russia Gazprom Space Systems is not only a satellite operator but also a service provider and system integrator. Within Russia, along with satellite capacity, it provides satellite services including satellite links, video distribution, Internet access and network development and management.

GlobeCast
Cabsat 2013 Hall 3 Stand no. D3-10
www.globecast.com



GlobeCast operates over a dozen teleports worldwide, delivering the equivalent of 1,000 television and radio channels. The company uses its extensive knowledge and experience in the broadcast industry to develop this 24/7 monitoring center, which will provide robust and secure service for clients in the region including satellite operators, broadcasters, and TV channels. This service is part of a catalog of value-added services that GlobeCast has tested in its centers worldwide and is now beginning to implement in the Middle East.

GlobecommSystems
Cabsat 2013 Hall 2 Stand no. A2-32
Satellite 2013 Booth no. 6075
www.globecomm.com

Globecomm Auto-Explorer™ Transportable Satellite Terminals are lightweight, high-performance antennas providing two-way communications in multiple bands for military units, governmental agencies, corporations, and other organizations needing to extend their networks to remote locations where traditional telecommunications infrastructure is either inadequate or non-existent. Applications for this 1.0M/1.2M auto-aligning, multi-band antenna include voice, fax, data, video, Internet and LAN-to-LAN connections.

Features include satellite auto acquisition function, replaceable modem & power supply, and a graphical user interface that simplifies the operation. Single, Dual, Tri-band (X, Ku, Ka band) configurations are optional. Other options include outdoor modem configuration, baseband enclaves (SIPR, NIPR), and IATA compliant for checked baggage. Additionally we offer the option to eliminate L-band cabling and support select iDirect, HNS and CEFD modem products.



Auto-Explorer™
Transportable
Satellite Terminal

Hispasat/ Hispamar Satélites
Cabsat 2013 Hall 4 Stand no. D4-23
Satellite 2013 Booth no. 3081
www.hispasat.es

Covering all of the Americas, **Hispamar Satélites** – a **Hispasat Group** company – offers an extensive range of satellite communication services through the Amazonas 1 and Amazonas 2 satellites: IP, Broadcast, Corporate, Telecom, Government, Distance Learning, Telemedicine and Digital Signage.



Amazonas 1 and Amazonas 2 are two of the biggest and most powerful satellites serving the American Continent and operate collocated at 61° W offering both C- and Ku-band capacity, with immediate availability of high quality Ku-band capacity for North America. Its latest addition to its fleet is the Amazonas-3 satellite which includes nine Ka-Band spot beams—the first Ka-Band capacity made available for the Latin American market.

O3b Networks
Cabsat 2013 Hall 2 Stand no. B2-20
Satellite 2013 Booth no. 5043
www.o3bnetworks.com

O3b Networks Limited is a global satellite service provider building a next-generation satellite network for telecommunications operators, Internet service providers, enterprise and government customers in emerging markets. The O3b system will combine the global reach of satellite with the speed of a fiber-optic network providing billions of consumers and businesses in nearly 180 countries with low-cost, high-speed, low latency Internet and mobile connectivity. O3b Networks' investors include SES, Google, Liberty Global, HSBC Principal Investments, Northbridge Venture Partners, Allen & Company, Develop-



ment Bank of Southern Africa, Sofina, Satya Capital and Luxempart. O3b Networks is headquartered in St. John, Jersey, Channel Islands.

**San Francisco International Gateway
Satellite 2013 Booth no. 6127**
www.sfig-teleport.com



San Francisco Interantional Gateway (SFIG) is a full-service teleport located at Richmond, California, directly across the San Francisco Bay from the Golden Gate Bridge and about 20 minutes from

downtown San Francisco.

The facility is a complex composed of modular buildings and technical equipment shelters adjacent to satellite earth station antennas on a 2 acre parcel of land. The SFIG technical facility consists of 19 satellite earth station antennas, of various sizes from 13.0 meters to 2.4 meters in diameter to serve both C and Ku band satellites.

Walton De-Ice
Satellite 2013 Booth no. 7051
www.de-ice.com



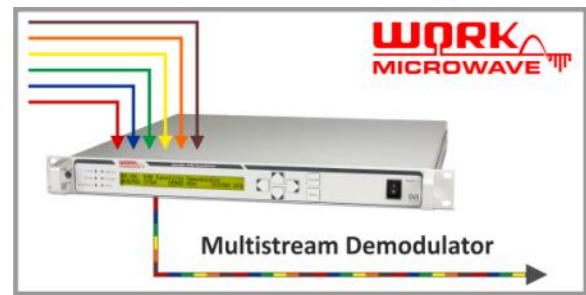
Walton De-Ice designs and manufactures the broadest line of equipment available for preventing the accumulation of snow and/or ice on satellite earth station antennas.

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 2013 Walton De-ice will be showcasing its new Rain Quake system specifically designed to reduce rain fade on Ka-Band antennas. During heavy rain conditions, Walton's Rain Quake can reduce rain fade by up to 20 times more.

Work Microwave
Cabsat 2013 Hall 2 Stand no. C2-30
Satellite 2013 Booth no. 6101
www.work-microwave.de

At Cabsat and Satellite 2013, **WORK Microwave** will perform a series of advanced technology demonstrations. In addition to showcasing the company's popular DVB-S2 Combined Data and Video Modem SK-DV, DVB-S2 IP-Modem SK-IP, and Fifth Generation Frequency Converter Series, WORK Microwave will unveil a powerful new DVB-S2 multistream feature for its demodulator product line.



WORK Microwave will introduce DVB-S2 multistream functionality to its extensive line of demodulator solutions, including the company's flagship SDD-TS and SDD-DV products. Utilizing this powerful new technology, users can seamlessly de-aggregate/demodulate multiple transport streams and IP data (up to six) into a single carrier, thereby reducing the amount of equipment required for uplink and downlink operations and optimizing efficiencies.

Xiplink Inc.
Satellite 2013 Booth no. 6095
www.xiplink.com

Delivering the most advanced optimization solutions, **XipLink** provides more value per invested capital than any other product. XipLink utilizes advanced TCP acceleration techniques, UDP/VoIP optimizations, stream-based data compression, byte caching and internet (web) acceleration capability. These are further enhanced with class-based Quality of Service shaping and link management tools such as TCP session balancing, link bonding and intelligent link path selection. Based on IETF standards in combination with the Space Communications Protocol Standards (SCPS), XipLink provides a standards-based interoperable solution ensuring government and military organizations multi-vendor interoperability. XipLink solutions are transparent to users, requiring no pre-configuration, operating over any IP topology including TDMA, SCPC and Mesh.



XipLink offers the **XA-Series** of scalable appliances, starting with systems operating at 400 kbps and scaling to appliances that operate at 155 Mbps throughput and over 30,000 simultaneous connections. Advanced Cellular Compression and XipLink Hub Optimizations are key optional add-ons to the solution. XipLink also offers the **XE-Series** of embedded software products, optimizing portable wireless terminals or hand-held tactical radios operating on a user-selected platform. In 2011, XipLink was awarded the Technology of Year by the World Teleport Association for XipLink's Hub Optimizations technology.