



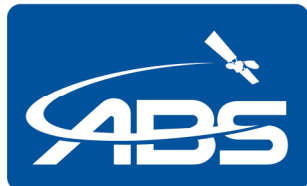
Products and Services MarketPlace

■ A guide to key products and services to be showcased at IBC 2014, Amsterdam, the Netherlands from September 12-16, 2014.

ABS

Hall 2 booth 2.A30 and Hall 13 MS23

www.absatellite.com



ABS is a young, dynamic and fast growing global satellite operator. ABS offers a complete range of tailored solutions including broadcasting, data and telecommunication services to broadcasters, service providers, enterprises and government organizations.

ABS operates a fleet of six satellites; ABS-1A, ABS 3, ABS-4/Mobisat-1, ABS-6, ABS-7 and the recently launched ABS-2. The satellite fleet covers 80% of the world's population across Africa, Asia Pacific, Europe, the Middle East, CIS and Russia. ABS has also procured two Boeing 702SP satellites (ABS-3A & ABS-2A) planned for launch in late 2014 and 2015 with the options to add more satellites over the next 2-3 years to its growing satellite fleet.

Headquartered in Bermuda, ABS has offices in the United States, Dubai, South Africa, Germany, Philippines, Indonesia, Malaysia, Singapore and Hong Kong. ABS is majority owned by funds managed by the European Private Equity firm Permira. The Permira funds acquired ABS in 2010. For more information, visit www.absatellite.com

Advantech Wireless

Hall 1 booth 1.A74

www.advantechwireless.com

At IBC 2014, **Advantech Wireless** will present details of its powerful and award winning Broadcast Solution - GaN based SSPAs and a live demo of the Next Generation Discovery Adaptive Satellite Access Technology (A-SAT™) platform. At Advantech Wireless booth no. 1.A74, visitors will find Advantech Wireless' leading-technologies, delivering best performance to achieve best ROI in the market.

Awarded Teleport Technology of the year 2014 by the World Teleport Association and Vision Award as Most Innovative Product of the Year 2013, Advantech Wireless' Sapphire-Blu™ Series of UltraLinear™ GaN based SSPAs offers the highest linear power available in the market.

A-SAT™ is beyond dual mode DVB-RCS/TDMA-SCPC, it



Discovery 100 ASAT

monitors channel utilization and switches the satellite access method and MODCOD seamlessly for the return channel to dynamically maximize the space segment utilization efficiency. Additionally, by having TDMA and true SCPC technologies in a single platform, the switch between traffic patterns is efficiently supported and all risks of equipment obsolescence are mitigated.

To set up a meeting with one of Advantech Wireless' experts please visit: <http://www.advantechwireless.com/meeting-request>

Amos Spacecom

Hall 1 booth 1.C65

www.amos-spacecom.com



Spacecom, operator of the AMOS satellite constellation, consisting of **AMOS-2** and **AMOS-3** co-located at 4°W, **AMOS-5** at 17°E, and

AMOS-4 at 65°E. The AMOS satellites provide high-quality broadcast and communications services in Europe, Africa, Russia, Asia, the Middle East, & North America. With the launch of AMOS-6 to 4°W in 2015, enhancing coverage over Europe and the Middle East with its new Pan-European beam, Spacecom will further strengthen its position as a global satellite operator.

Spacecom's AMOS-4 satellite provides a full range of services to Southeast Asia, Russia and China. AMOS-6, planned for launch in 2015, will provide steerable Ku-band across Europe and the ME and high-throughput Ka-band coverage in Africa and Europe. Ku-band and Ka-band on AMOS-4 is now available.

ARABSAT

Hall 1 booth 1.B38

www.arabsat.com



Founded in 1976, **ARABSAT** has been serving the growing needs of the Arab world for over 30 years. Now one of the world's top satellite operators and by far the leading satellite services provider in the Arab world, it carries over 450 TV channels, 160 radio stations, 4 Pay-TV networks and wide variety of HD channels reaching tens of millions of homes in more than 80 countries

across the Middle East, Africa and Europe—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 owned satellites at the 20° East, 26° East, 30.5° East and 39° East positions of the geostationary orbit, ARABSAT is the only satellite operator in the MENA region offering the full spectrum of Broadcast, Telecommunications and Broadband services. This capacity will continue to expand with the launching of new satellites, making the ARABSAT satellites' fleet the youngest in the region.

ATCI
Hall 4 booth 4.C65
www.atci.com

ATCI is a custom communications solutions provider specializing in commercial satellite communications systems and services including: the Simulcast multibeam, parabolic antennas, complete uplink systems/services, teleports, cable television headend and plant components, test equipment and input matrix switches, as well as fiber optics components for corporate, broadcast, cable television, government and education.



AVL Technologies
Hall 5 booth 5.A49
www.avltech.com

AVL Technologies' booth at IBC 2014 will showcase our newest 2.0m Vehicle-Mount antenna for Military and SNG applications. This robust antenna features an AvL-unique three-piece carbon fiber reflector with motorized folding hinged "wings" for automatic, compact stow width on mid-sized trucks, a high-stiffness azimuth bearing, our proprietary zero-backlash AvL Cable Drive, and a wide boom to allow for larger HPA envelopes. The antenna stows to a remarkable 50cm and is operated with AvL's new AAQ controller.

Also on display will be AvL's new 85cm Ka-band broadband antenna with a cowling. AvL's Ka-band broadband antenna family is noted for its versatile configurations, high reliability and cost-effective "go-to" solutions for mobile accessibility with High Throughput Satellites.

AvL will also show our newest 60cm, 85cm, 1.2m and 2.4m Manual FlyAway antennas. These antennas are lightweight, compact, portable and robust with carbon fiber reflectors.



AVL's new 2.4m antenna

AvL antennas are the industry benchmark of excellence for mobile broadband Internet access, SNG, Disaster Relief, Oil & Gas Data Backhaul, and Defense & Homeland Security solutions.

C-COM Satellite Systems Inc.
Hall 4 booth 4.C55
www.c-comsat.com

C-COM Satellite Systems Inc. is a leader in the development and deployment of commercial grade mobile satellite-based technology for the delivery of two-way high-speed Internet, VoIP and Video services into vehicles.

C-COM has developed a unique proprietary Mobile auto-deploying (iNetVu[®]) antenna that allows the delivery of high-speed satellite based Internet services into vehicles while stationary virtually anywhere where one can drive. The iNetVu[®] Mobile antennas have also been adapted to be airline checkable and easily transportable.



C-COM Satellite Systems will be displaying the Next Generation, one-button auto-acquire antennas at IBC 2014. The iNetVu[®] FLY-98G Flyaway Antenna is a 98 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu[®] 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person. The antenna is convertible from Ka- to Ku-band, and vice versa.

Cobham SATCOM Land
Hall 1 booth 1.F41
www.cobham.com/satcom

Cobham SATCOM is an official launch partner for Inmarsat Global Xpress[®] (GX), and several EXPLORER products are being developed specifically for operation on the GX network. Products include the EXPLORER 3075GX, which is a 0.75m Electronic Assisted Manual Point Fly-Away terminal; the EXPLORER 5075GX 0.75m Auto-Acquire Fly-Away terminal; and the EXPLORER 7100GX 1.0m Auto-Acquire Drive-Away terminal.



Cobham's EXPLORER 5075GX

Regardless of the application, Cobham's suite of GX EXPLORER terminals provide the

reliability and functionality required to effectively connect users to the GX network for mobile and vehicular use across diverse sectors including Government, Emergency Response, Law Enforcement, Media Broadcasting, Transportation, Enterprise, Energy and Mining.

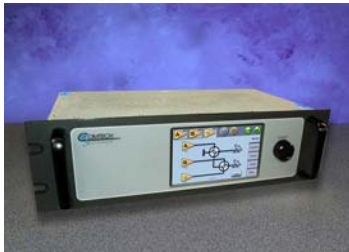
Comtech EF Data
Hall 1 booth 1.F80
www.comtechefdata.com



Comtech Telecommunications Corporation, is the recognized global leader in satellite bandwidth efficiency and link optimization. The integrated SatCom infrastructure solutions encompass Advanced VSAT Solutions, Satellite Modems, RAN & WAN Optimization, Network & Bandwidth Management and RF products. The offerings enable commercial and government users to reduce OPEX/CAPEX and to increase throughput for fixed and mobile/transportable satellite-based applications. With the addition of our premium service, ESS Prime, we also provide 24x7 engineering support and other technical services to support your integrated network infrastructure. For more information, visit www.comtechefdata.com.

Comtech Xicom Technology
Hall 1 booth 1.F80
www.xicomtech.com

Comtech Xicom Technology, Inc. provides a broad product line of KPAs, TWTAs, SSPAs and BUCs for worldwide satellite uplink covering C, X, Ku, DBS, Ka, Q-Band, Tri- and Multi- Band with power levels from 8 to 3,550 watts and available in rack-mount and antenna-mount ODU packages.



Xicom is showcasing a number of products during IBC2014, including the new LCD Touch Screen Controller that **LCD Touch Screen Controller** provides an easy-to-use interface for monitoring and controlling all your SATCOM HPAs: Control Any HPA Including ODUs; Single Amplifier or 1:N Redundancy; Intuitive Set-Up, Control and Monitoring; Eliminates the Need for Separate External Controllers.

Representatives will be available for SATCOM providers and developers to discuss and obtain technical information on many of the company's amplifier products at their booth 1.F80, Hall 1.

Gazprom Space Systems
Hall 4 booth 4.B71
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
Hall 1 booth 1.A29
www.globecast.com



At IBC2014 **Globecast** is introducing a single unique workflow to deliver all content preparation services, including playout, VoD preparation, content formatting and creative services. The workflow will allow Globecast to more efficiently support broadcasters, enabling them to manage and localise content for individual territories.

In addition to its worldwide presence in 15 countries, the Globecast's Media Factories - in Paris, London, Singapore and Los Angeles - will leverage the company's proven expertise in handling both linear broadcast and on-demand services. The Media Factory approach delivers dedicated operations management in close cooperation with clients and goes beyond traditional media management, logistics and playout services.

Hispasat/ Hispamar Satélites
Hall 1 booth 1.A46
www.hispasat.es



The **HISPASAT Group** is composed of companies with a foothold in Spain as well as in Latin America, where its Brazilian affiliate HISPAMAR, sells its services. The Group is a leading Spanish- and Portu-

guese-language content broadcaster and distributor, including over important direct-to-home television (DTH) and high-definition television (HDTV) digital platforms. HISPASAT is one of the world's largest companies in terms of revenue in its sector, and the main communications bridge between Europe and the Americas.

Narda Test Solutions

Hall 8 booth 8.E35

www.agfranz.com/narda-satellite/

Narda Test Solutions designs and manufactures highly sensitive signal analyzers for RF interference detection and monitoring (rack-mountable and portable).

At the IBC Show Narda Test Solutions will be showcasing the **Narda Remote Spectrum Analyzer NRA 6000**. The NRA is a 1RU rack mountable, high speed (12 GHz/sec), low-power fan-less test-equipment that can be and has been integrated and



Narda NRA 6000

remotely controlled in various monitoring systems. The wide bandwidth (9kHz-6GHz) of the NRA-6000 enables the operator to simultaneously monitor a variety of signals with up to 600,000 samples per sweep. The NRA-3000 model (9kHz-3GHz) is optimized for satellite signal interference monitoring and troubleshooting. The optional high-speed I/Q data streaming capability is ideally suited for signal identification and characterization.

ND SatCom

Hall 5 booth 5.C31

www.ndsatcom.com

With three decades of experience, **ND SatCom** has become the premier supplier of innovative satcom systems to support customers with critical operations anywhere in the world.

At IBC, ND SatCom will be highlighting its new SKYWAN 5G product. The SKYWAN modem family is a reliable, flexible and versatile satellite communication platform for customer centric networks. It is a bi-directional MF-TDMA plus DVB



system that supports voice, video and data applications in the most bandwidth efficient manner.

The new SKYWAN 5G unlocks new business opportunities for service providers. Total cost of ownership is signifi-

cantly reduced thanks to the fact that only one type of device is needed for all roles in the network. This saves costs in terms of logistics, certifications, network configuration and maintenance. SKYWAN 5G enables star, mesh, multi-star or hybrid topologies with Communications-on-the-move (COTM) support. Each unit can act either as a hub or master station, therefore adding agility in terms of its network role.

Newtec

Hall 1 booth 1.A49

www.newtec.eu

Newtec will be showcasing at IBC its new Dialog® platform. Dialog® is a new scalable, flexible and bandwidth efficient multiservice platform allowing operators to build and adapt their infrastructure easily as their business and the satellite market grows and changes. Newtec Dialog gives operators the power to offer a variety of service on a single platform while assuring the most optimal modulation and bandwidth allocation. In addition to supporting SCPC or MF-TDMA, it now includes a third revolutionary patented return link technology called Mx-DMA™. Together with the new HighResCoding™, it combines the best of both worlds and enables services to run more efficiently than ever before over satellite.



The Newtec Dialog® platform consists of hub(s) and terminals. The Newtec Dialog Hubs are modular and scalable and can be configured in different sizes to fit the needs of customers. This picture shows the HUB6501 1IF and the HUB6504 4IF Hub Modules.

Peak Communications Ltd.

Hall 1 booth 1.C33

www.peakcom.co.uk

Peak Communications design and manufacture professional high-quality commercial and military satellite low-power RF equipment for Satellite earth stations: Block, fixed and agile (synthesized) frequency converters, test-loop translators, beacon receivers, automatic uplink power control units, line amplifiers, modular gain control units, splitters & combiners, DC & 10MHz drivers for BUC/BDC/LNB units, 10MHz reference generation & distribution, distribution switching and noise sources.

Many of the products are available in multi-channel configurations, allowing the simultaneous conversion or signal



Peak UPC 7000 series

conditioning of the same frequency range.

The equipment is provided in three physical configurations: remote, weatherproof units for a compact outdoor solution; ½ rack, modular, hot-swappable units to offer the ultimate in maintainability; fixed dual, triple or quad-bands/ranges in 1RU chassis for a compact indoor solution.

At the IBC Peak will be showcasing the **UPC7000 series**, the next generation **Automatic Up-Link Power Control units** (AUPC's) that measure the 'link loss' from a Satellite Beacon signal and subsequently automatically control the Uplink power via a number of adjustable IF or L-Band Attenuator channels.

RF-Design

Hall 1 booth 1.F49

www.rf-design-online.de

RF-Design with headquarters in Lorsch, Germany is successfully developing, manufacturing and marketing professional and high-quality RF-distribution solutions for the international Satellite, Broadcast and Broadband communications industry. Our product portfolio includes **LNB-supply/control solution, Splitters/Combiners, Switches, Redundancy Switches, L-Band Switch/Routing Matrix systems, RF Line Amplifiers, RF-over-Fiber solutions and Broadband Remote Spectrum-Analyzers.** Furthermore our company and team is well recognized for developing and providing custom made products and solutions tailored to your individual needs and applications.

All our products are manufactured, tested & approved in our own facilities in Lorsch, Germany and characterized by superior quality, reliability and excellent performance while they are in operation with major Teleports, Satellite Earth-Stations as well as Broadcasting and Broadband facilities around the globe.

At IBC 2014 we will showcase our new products such as the "**FlexLink K4 L-Band Switch Matrix**", "**RLA270L 1:1 redundant Line-Amplifier**", "**SA3B multi-input Broadband Remote Spectrum-Analyzer**" and "**FiberLink ROver- Fiber Solutions.**"

Satlink Communications

Hall 5 booth 5.A17

www.satlink.tv

SatLink Communications, a global teleport, internet delivery, HD playout and content management services



RF-Design's new "FlexLink K4 Switch Matrix" and "RLA270L 1:1 redundant Line-Amplifier"

provider, will be debuting its latest innovative End-to-End (E2E) OTT cloud solution, which will enable broadcasters to offer subscribers the very best of TV with immediate access to personalised content anytime, anywhere and on any device.



During IBC SatLink will also offer special promotions on its new Hotbird DVB-S2 platform, in co-operation with Sky Italia, and AsiaSat 5 DVB-S2 satellite platform to aid international broadcasters looking to expand their reach into new TV markets in Europe and Asia.

SatLink will also be exhibiting its capabilities to provide end-to-end broadcasting solutions and support for all global live, linear and non-linear digital media requirements including Satellite uplink, downlink, turnaround and multi feeds aggregation for Pay TV operators; Sports and News Occasional Use delivery; playout; content management, Digital Archival and TV channels localisation; productions, real time news monitoring and satellite engineering solutions.

SatService GmbH

Hall 1 booth 1.F47

www.satservicegmbh.de

SatService Gesellschaft für Kommunikationssysteme is pleased to present at IBC the mobile Internet Access via Viprinet Router 510 by aggregating multiple bandwidths of different Wide Area Network Connections in order to increase transmission capacity as well as reliability.

At IBC 2014 we will not only present our own product family **sat-nms**, but also the reliable mobile Multichannel 510 produced by Viprinet Europe GmbH. Satservice is an authorized business partner of Viprinet.



Viprinet Router

SatService will also be showcasing its **sat-**

nms SMU Signal Management Unit for Broadcast and Satellite Ground Station Applications.

The **sat-nms** SMU is the unit you were always looking for in your satellite ground station and/or satellite head-end environment. It enables you to perform all kind of signal management in a simple to use and very flexible unit. Due to the choice of different card modules you are able to build your own **sat-nms** SMU best matching the requirements of your application. Each card module is designed to fulfil a specific function and the combination of different card modules gives you the possibility to solve your signal handling problems.

ScheduALL
Hall 1 booth 1.D30
www.scheduall.com



ScheduALL, the leading global provider of Enterprise Resource Management (ERM) software for media and transmission, will

highlight three smart technology solutions at IBC2014, including two methods for customers of transmission providers to self-provision their own Occasional Use bookings, as well as a sneak peek at intelligent management of media projects.

The **ScheduALL Connector™** platform unites ScheduALL systems across enterprises and supply chains, giving customers real-time access to their providers' resource inventories for self-provisioned bookings. By unifying companies in a global business network, Connector eliminates manual booking, duplicate efforts, miscommunications and reservation conflicts from the booking procedure.

The **ScheduALL Portal™** platform is a web-based, real-time portal that simplifies the complicated process of booking bandwidth by allowing customers to book transmission feeds through their provider's ScheduALL system.

The **ScheduALL Media™** platform provides intelligent management of deadline-based projects and workflow deliverables for media and broadcast organizations.

Work Microwave
Hall 4 booth 4.C60
www.work-microwave.de

At IBC2014, WORK Microwave will showcase a wide range of advanced satellite communications technologies that support the new DVB-S2X standard.

WORK Microwave's DVB-S2X equipment provides satellite operators with increased flexibility, bandwidth, and margins while reducing their amplifier power, operating costs, and antenna sizes. The company will also demonstrate improvements to its Fifth-Generation Frequency Converter Series, including Q-band support.

WORK Microwave will demonstrate DVB-S2X support for its IP-Modem SK-IP, Broadcast Modulator, and wide-band devices. The DVB-S2X extension offers a variety of advanced features and benefits, including smaller roll-offs, advanced filtering, higher modulation schemes, and wide-band support beyond 72 Mbaud, enabling operators to achieve sizeable efficiency gains exceeding the results offered by proprietary systems on the market today.

WORK Microwave will also demonstrate its Fifth-Generation Frequency Converter Series, designed to support applications that require low phase noise, ranging from S-band to Q-band. Utilizing a sophisticated synthesizer, the frequency converters can deliver phase noise at a level that significantly exceeds the respected industry standard according to Intelsat's Phase Noise Specification, IESS-

308/309. The converter series also includes a new Ethernet port that simplifies remote configuration and monitoring of the device. **WORK**



Work Microwave 5th Generation Frequency Converter

Microwave's Fifth-Generation Frequency Converter Series is based on a compact, multichannel module design that allows operators to support up to four channels within 19-inch housing, lowering operational expenses and saving valuable space.

Walton De-Ice
Hall 1 booth 1.A62
www.de-ice.com



Walton De-Ice, the world's leading designer and manufacturer of satellite earth station antenna (ESA) weather protection solutions — will showcase its latest Ka-Band satellite ESA weather protection solutions, **Ice**

Quake, Rain Quake, and Snow Shield during IBC2014.

"New Ka-Band satellite networks in Europe and elsewhere offer huge capacity for 4K and future media services, but the potential signal degradation due to rain, snow, and ice pose new challenges at Ka-Band," says Walton De-Ice's David Walton. "Antenna de-icing and weather protection systems from Walton De-Ice can reduce signal loss through Ka-Band dishes, and improve the reliability and quality of content delivery services."

Snow Shield consists of architectural fabric, which is virtually invisible to RF. Snow Shield covers (0.6 - 6.3 meter) can be passive, or actively heated using electric or gas heaters. The Ice Quake enhances the performance of the Snow Shield antenna cover by vibrating the fabric cover, preventing snow and ice accumulation that degrade signals.



For rainy climates, the Rain Quake prevents water from sheeting on an antenna surface — which causes Ka or Ku-band rain fade. The Rain Quake helps to minimize bit error rates and antenna noise temperature increases, thereby improving Ka and Ku-Band signal quality during rainstorms.

Now available worldwide with CE (European Union) certification, our newest CE-certified gas heaters combine with the Walton De-Ice Plenum system to offer unparalleled performance and reliability, providing the most rapid, and cost-effective solution for preventing snow and ice buildup at the lowest operational cost for an ESA.