PRODUCTS & SERVICES MARKETPLACE

A guide to key products and services to be showcased at CommunicAsia 2019, June 18-20, Marina Bay Sands Expo Center ,Singapore

Advantech Wireless Technologies
Booth Level 1 # G3-07
www.advantechwireless.com

At **Advantech Wireless Technologies**, we design, manufacture and deploy networking for broadband connectivity, broadcast solutions, video contribution and distribution and mobile backhaul, using satellite and terrestrial wireless technologies. Our revolutionary technologies include world-leading GaN technology based high power amplifiers, SSPAs, block-up converters (SSPBs), frequency converters, deployable antennas and terrestrial microwave radios.

AvL Technologies
Booth Level 1 # N1-01
www.avltech.com

Twenty five years in the satellite communications industry, **AvL Technologies'** presence in the global market over the years, speaks volumes of the company.

AvL's first antenna – serial number 001 – is a 1.8m SNG antenna still in operation today, and it operates from its third uplink truck at PacSat.

At CommunicAsia this year, our booth will have on display:

• A 1.2m motorized Fly&Drive antenna that can be mounted on to a pick-up truck, SUV or box truck. The antenna has a 3-piece segmented reflector that fits into a small case making it easy to ship or transported as a vehicle mount.

AvL Model 1258KFD Mobile Broadband Transportable Antenna

• Our 2.0m ultra-light and easy-to-point manual operation axi-symmetric antenna.

This antenna has a 12-piece carbon fiber reflector and RF package that consists of a 55W Ku-band BUC, which is located behind the hub. The antenna is easy to assemble and can be on-network in <25 minutes.

• The 75cm FIT, one of the aperture sizes of the Family of Integrated Terminals.

The FITs are designed to accommodate current and future modem, RF and satellite frequency options.

• Model 1224i, 1.2m fully-integrated auto-deploy network terminal that comes with a 6-piece carbon fiber reflector, removable boom, and band-configurable weatherproof electronics enclosure.

C-COM Satellite Systems Inc.
Booth Level 1 # Q3-01
www.c-comsat.com

Visit C-COM's booth to see a demo of the latest motorized iNetVu® MP-100-MOT ManPack antenna system. These highly portable antenna systems can be easily configured to provide quick access to satellite communications in Ku, Ka or X-band – anytime, anywhere. The robust yet lightweight ManPacks come in 3 sizes, 60 cm (6-piece carbon reflector) 80 cm (5-piece) and 100 cm (7-piece). They can be assembled in 10 minutes or less, and are available in manual formats.

Also on display, the iNetVu® Ka-98G Drive-Away Antenna is a 98 cm auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7710 Controller providing fast satellite acquisition within minutes, anytime anywhere. Avanti Approved & Thor7 Type Approved; Field Upgradeable to Ku-band and are ideally suited for government, military, emergency response, disaster management, public safety and broadcast.

Comtech EF Data Corp.
Booth Level 1 #T2-07
www.comtechefdata.com

For 20+ years, **Comtech EF**

Data continues to be the premier supplier of bandwidth-efficient satellite modems, VSAT networking solutions and RF products to MNOs globally in diverse and challenging environments. With infrastructure equipment supporting >60 Gbps of mobile backhaul over GEO, HTS and MEO, we have the experience and product diversity to facilitate value-added and efficient deployments. We closely monitor market trends and have designed our solutions to deliver true benefits to MNOs – the performance needed to reduce required satellite bandwidth, drive down the total cost of ownership, improve quality of experience and deliver the industry's highest KPIs.

COMTECH Xicom Technologies
Booth Level 1 # T2-07
www.xicomtech.com

Comtech Xicom Technology 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 Multiband with power levels from 8 to 3,550 watts and available in rack-mount and antenna-mount ODU packages.

Comtech Xicom has led in the design and production of millimeter wave TWTAs. Xicom has been shipping high power Ka-band amplifiers since 1997. We have shipped more than 2000 Ka-band amplifiers to military and commercial customers around the globe. We can offer CW amplifiers for TT&C as well as peak amplifiers for multi-channel communications. We offer both outdoor mounted and indoor products to meet our customers' needs.

Comtech Xicom is the world leader in Q-band HPAs. We have 50, 120, 140 and 200W products. As well as a dual-band Ka/Q band amplifier. We have full mil qualification. V-Band is an emerging frequency of interest due to the vast available bandwidth and the availability of V-band hardware. Comtech Xicom offers a 250W V-Band amplifier for gateway service.

Es'hailsat Qatar Satellite Company
Meeting Room Level 4 Melati 4010B
www.eshailsat.qa

Es'hailSat, the Qatar Satellite Company, is a communications satellite operator headquartered in Doha, Qatar. Es'hailSat was established in 2010 with the goal of managing and developing Qatar's presence in space. The company provides independent, high-quality, advanced satellite services to broadcasters, businesses and governments in the MENA region and beyond.

With the aim to be a truly global satellite operator and services provider, Es'hailSat started the operation of its first satellite Es'hail-1 at 25.5° East in 2013 supporting key broadcasters in the region, beIN SPORTS and Al Jazeera Media Network. Es'hail-2, the company's second satellite was launched on November 15, 2018 and entered in commercial service early 2019 at the 26° East orbital position.

Gazprom Space Systems
Booth Level 1 #U2-01
www.gazprom-spacesystems.ru

Gazprom Space Systems (GSS) is a Russian satellite operator providing high quality Yamal capacity all over the world. Yamal satellite fleet consists of four satellites, namely Yamal-202 (49°E), Yamal-300K (183°E), Yamal-401 (90°E) and Yamal-402 (55°E). Due to high performance and wide coverage areas, Yamal satellite capacity is in high demand over Asia-Pacific, Middle East, Europe, Russia and CIS. It is perfect for Backhaul, Trunking, Broadband, mobility and SNG services.

Integrasys S.A.
Booth Level 1 W3-01
www.integrasys-space.com

Integrasys is a privately owned company specialized on engineering and manufacturing Satellite Spectrum Monitoring systems and VSAT tools in the telecommunication and broadcasting markets. Integrasys was founded in 1990 by a group of Hewlett-Packard engineers experts on Automated RF & Microwaves Test Systems and Software. Since then Integrasys has evolved towards today's company, offering a wide range of signal monitoring products for different telecom services.

At Integrasys our mission is to provide the industry the best quality and fastest technology available in carrier mon-itoring systems, with the customer service and care that our customer's deserve. We want to add value to our customers in quality of service, technology, speed and cost efficiency, by innovating; therefore satellite industry recogniz-es Integrasys as the leader for innovation in satellite signal carrier monitoring systems and VSAT tools.

Mission Microwave Technologies
Booth Level 1 # R3-09
www.missionmicrowave.com

Mission Microwave Technologies is developing revolution-

ary Solid State Power Amplifier BUCs to support ground-based, airborne, and space-based applications. Utilizing the latest in semiconductor technology, we have optimized the size, weight, and power (SWaP) for these critical applications while delivering the best possible reliability. Mission Microwave currently offers advanced GaN BUC products at X-Band, Ku-Band, and Ka-Band from 12W to 400W, and sets the "new standard" for performance and reliability.

ND SatCom
Booth Level 1 # L2-05
www.ndsatcom.com

At Satellite 2019, **ND SatCom** will be highlighting its SKYWAN **5G product which features:**

- One compact device for all applications and network roles
- Smallest hub on the market
- Supports all kinds of topologies

The SKYWAN **5G** satellite router is a reliable, flexible and versatile satellite communication platform for customer centric networks. It is a bi-directional MF-TDMA plus DVB-S2X system that supports voice, video and data applications in the most bandwidth efficient manner combined with unrivalled real-time performance.

SKYWAN 5G unlocks new business opportunities for service providers e.g.in enterprise networks. Total cost of ownership is significantly reduced thanks to the fact that only one type of device is needed for all roles in the network. Each SKYWAN **5G** has the full functionality on board and specific features are unlocked by a license key. One small hardware for all network roles simplifies logistics and unprecedented scalability enables the growth of your network in a very cost efficient manner. This saves costs in terms of logistics, certifications, network configuration and maintenance. Measuring in at only 1 RU the SKYWAN **5G** is the smallest hub device on the market.

SKYWAN **5G** enables star, mesh, multi-star and hybrid topologies. Each unit can act either as a hub or master station, therefore adding agility in terms of its network role. Geographical redundancy of the master station is already built-in and a DVB-S2X outbound can be added easily at every station. Network virtualization allows seamless integration into all IT infrastructures.

The device is so flexible: the customer can change the topology anytime, or cascade units to increase traffic volume per site according to business growth.

Newtec
Booth Level 1 # P2-01
www.newtec.eu

Newtec is specialized in designing, developing and manufacturing satcom equipment and technologies that can be applied in a wide range of single and multiservice applications from broadcast (all-IP networks), consumer and enterprise VSAT, government and defense, cellular backhaul and trunking and mobility, offshore and maritime markets.

Discover Newtec's latest industry-leading broadcast equipment, including the M6100 and the MCX7000; Find out more about the benefits of All-IP broadcasting and how it can transform your business; Experience a demonstration of DVB-S2X Channel Bonding UHD Contribution: 4K sports/events coverage made possible over fragmented space segment.

RF Design
Booth Level 1, German Pavilion # L3-01
www.rf-design-online.de

RF-Design specializes in developing, manufacturing, and marketing high-quality RF equipment, RF distribution and RF-over-Fiber solutions for the international Satellite-, Broadcating- and Broadband communications market. Our product portfolio includes a wide-range of Switch Matrix systems, RF-over-Fiber solutions, Splitters/Combiners, Switches/Redundancy Switches, Line Amplifiers, RF/DVB Signal Quality Analyzers and LNB-supply/conrol systems...perfectly suited for applications in Teleports, Satellite Earth Stations as well as for Broadcast- and Broadband RF distribution infrastructures. We also have strong capabilities to design and to manufacture cus-

tom-made products and solutions for your individual needs. All our products are developed, manufactured, tested, and approved in our own facilities in Lorsch, Germany and characterized by high quality, reliability and superior RF performance.

At CommunicAsia, we will be demonstrating our new RF Quad over Fiber system ***"QLink"*** with our new single, quad or 1:1 redundant ***"HQSeries"*** amplifier units and our *"FlexLInk"* Switch Matrix Solutions.

RSCC
Booth Level 1 # V1-07
www.rscc.ru

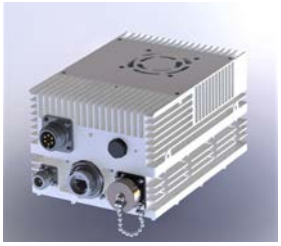
Russian Satellite Communication Company (RSCC) is the Russian GEO satellite operator with global coverage. RSCC provides a full range of communications and broadcasting services via its own terrestrial telecom facilities and satellite constellation; e.g. video distribution and contribution, DTH, DSNG, broadband Internet access, IP trunking and cellular backhaul, maritime mobility, SCADA, enterprise networks connectivity and other. The company operates various regional satellite TV distribution networks and corporate VSAT networks for fixed and mobile customers.

Spacebridge
Booth Level 1 # H2-01
www.spacebridge.com

SpaceBridge Inc. is an established supplier and global market leader in broadband satellite communications technology. The company develops and provides satellite network equipment and services, VSAT HUBs, Terminals for Point-to-Point, Point-to-Multi-Point, and Mesh typologies, as well as SCPC broadcast modems for GEO & NGSO satellite constellations and Cloud-Based managed services.

Terrasat Communications
Booth Level 1 # Q2-11
www.terrasatinc.com

Terrasat Communications presents the latest state-of-the-art IBUC for Fly-Aways & COTMs; the IBUC3. The latest in Terrasat tech is now ultra-lightweight, super compact, available up to 40W & comes with a 3-year warranty. All IBUCs allow the operator to customize configurations & manage alarms & sensors for real-time network management and control. IBUC reliability is baked into the IBUC3 design and verified through intensive individual unit testing.



IBUC3 for Fly-Aways and COTMs

Terrasat Communications designs and manufactures innovative RF solutions for Satellite Communications systems. Our ground-breaking IBUC – the Intelligent Block Upconverter – brings advanced features and performance to C-band, X-band, Ku-band, & Ka-band satellite earth terminals and VSAT's. Our products offer exceptional value at a reasonable cost, thereby allowing our customers to stay ahead of their competitors. Through conservative engineering, Terrasat products have gained a reputation for enduring over the long term in extreme operating conditions.

UHP Enterprises
Booth Level 1 # R1-01
www.uhp.net

UHP Networks is a leading global manufacturer of advanced VSAT networks and systems. Headquartered in Montreal, Canada, the company has over 370 networks and over 40,000 remote terminals installed in 50 countries. Among its customers are Fortune 500 corporations, major broadcast networks, top-tier US Mobile Network Operators and government agencies. UHP has the industry's first software-defined VSAT router, offering unparalleled processing capability (packets per second, Mbps, TCP sessions) per W of consumed power and superior bandwidth efficiency owing to the industry's most sophisticated TDMA protocol and DVB-S2X signalling. The company won the 2018 VSAT Stellar Award for Best Ground Segment Technology.

Work Microwave
Booth # V2-07
www.work-microwave.com

At CommunicAsia 2019, **WORK Microwave** will be showcasing the industry's first V-Band frequency converters as a qualified product. The converters are available in various dimensions of outdoor housings and cover the full ITU uplink bandwidth range from 47.20 to 51.40 GHz, providing full 4 GHz of bandwidth. As global consumption of bandwidth-intensive data and broadcast services increases, higher throughput satellites will be a requirement in the future. By offering V-Band-ready equipment WORK Microwave is helping the satellite industry tackle this important challenge.