



SpacePath Communications

Products and Services



**Europe's dedicated satellite amplifier manufacturer
and equipment specialist**

www.space-path.com

WE ARE SPACEPATH COMMUNICATIONS

Formed in 2014, SpacePath Communications was propelled onto the world SATCOM stage following the acquisition of the e2v satellite amplifier product range and an international customer base established over thirty years. From the outset, the start-up business possessed decades of engineering expertise and commercial experience in satellite amplifier and sub-system design and manufacture. Combined with a rigid focus on customer-led service, the company's ambition was to become a dedicated European-based satellite amplifier manufacturer and equipment specialist to rival the main North American suppliers.

Additional business acquisitions and partnerships followed, among them California-based TangoWave Inc., with the subsequent transfer of amplifier technology accelerating in-house product development and international expansion. Today, the UK-based SATCOM business has customers in over 35 countries and a service partner network that spans the globe.

Customer-driven design

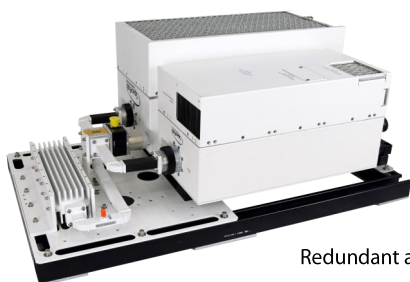
As a customer-driven organisation with an international focus, SpacePath continually reaches out to new territories and local partners to build a deeper understanding of market requirements.

Exemplifying its attention to customer-focused system functionality and performance, the company designed the innovative STR series of indoor travelling wave tube amplifiers (TWTA). Keenly aware of the convenience provided by an easy-to-use graphical interface, the amplifier's multi-mode, touch screen displays everything from power output and temperature to parameter trend analysis and event logging.

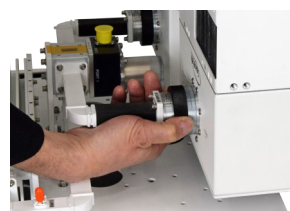


STR series 4U rack-mount indoor TWTA with touch screen front panel for monitoring and controlling the amplifier

With innovation viewed as the engine driving the performance of its amplifiers and systems, SpacePath has always looked to shape product strategies around the real-world needs of end-users, especially for new or emerging market applications. It now designs, manufactures and distributes an expanding range of high performance satellite uplink amplifiers and associated equipment, including RF high-power amplifiers (HPA), solid-state amplifiers (SSPA), redundant system controllers and sub-systems.



Redundant amplifier system with SpacePath's universal rack-mount system and quick-release waveguide connector



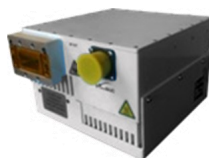
Application-led innovation

The company also continues to diversify its product portfolio with different frequencies, power outputs and technologies. Its amplifiers cover C- to Ka-band frequencies with power outputs ranging from a few watts, based on small form factor solid-state technology, to high power solutions using multi-stage travelling wave tubes packaged in compact, high-efficiency designs.

Exploiting the high efficiency and lightweight design of its high-power amplifiers ideally positions SpacePath to increasingly play a significant role in new uplink amplifier development, suited for LEO and MEO satellite markets. And as solid-state power amplifier technology continues to become an important consideration for many emerging system applications, SpacePath has firmly embraced these small, lightweight power solutions investing both in gallium arsenide (GaAs) and gallium nitride (GaN) semi-conductor technologies.



Ka-band SSPA



C-band SSPA



Ku-band SSPA

SpacePath's ongoing R&D is committed to advancing amplifier design in line with many evolving and increasingly demanding technology-driven market segments, such as the next generation of satellites. To support the uplink frequencies utilised by new Q- and V-band transponders, high-power supplies able to drive TWTAs that operate at significantly higher voltages will be needed, together with sophisticated protection circuitry that safeguards the huge investment these SATCOM programmes represent. Future requirements for high throughput satellites (HTS) will also be met by the company's capabilities in low and high-powered Ka-, Q- and V-band amplifier design.

Industry-leading service

Renowned for the proven reliability of its uplink amplifier technology, SpacePath's product portfolio extends to all mission-critical satellite communication segments, including digital satellite newsgathering (DSNG), military satellite communications, large teleports, mobile applications and flyaway systems. As a dedicated, European-based amplifier manufacturer with exceptional service and maintenance values, the company continues to grow its global partner network and provide industry-leading customer support. Equally, SpacePath actively collaborates closely with end users and system integrators as part of its product development roadmap. Combined with its own R&D, this ensures the company's commercial priorities are always focused on introducing many practical features and services that help streamline amplifier maintenance, drive down cost and simplify overall system operation.



Removable air filters on TWTAs deliver cost-effective maintenance and convenience.

Provider of Choice

Operating at the forefront of HPA technology and innovation, SpacePath Communications continues to be driven by a deep understanding of customer requirements. Backed by its unrivalled wealth of industry experience and engineering expertise, combined with comprehensive levels of customer service and support, the company has rapidly become a provider of choice among system vendors across the global SATCOM market.



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GLOBAL MARKET APPLICATIONS

DIGITAL SATELLITE NEWSGATHERING (DSNG)



For both vehicle-based and flyaway systems, lightweight, small and power-efficient amplifiers offer proven performance and reliability in extreme environments.

SATELLITE GROUND STATIONS



High-power indoor and outdoor uplink amplifiers designed to meet the needs of Direct-to-Home service providers with teleports based around the world.

MIL SAT COMMUNICATIONS



Satellite amplifiers and subsystems catering for a wide range of military applications, supporting ground-based, shipboard, trailer-mount and back-pack satellite communications.

ADDITIONAL SERVICES

Events Rental

Recognising the flexible needs of the satellite community in a changing market, SpacePath is uniquely placed to support interim commercial and military uplink system requirements. Offering both short and long-term rental solutions, the company can provide amplifier systems and industry-standard flyaway antennas as part of its wide rental product portfolio. All equipment is regularly maintained to the highest standard by an in-house customer service department. Prior to delivery, every system undergoes pre-hire testing and inspection, and once in the field all equipment is comprehensively supported by the SpacePath team.

Long-Term Leasing

SpacePath also provides an alternative to normal capital-intensive equipment acquisition. By leasing amplifiers and sub-systems, customers need only commit to a specific period and cost, after which the equipment can either be returned, purchased outright or the agreement extended. As a cost-effective option, leasing uplink amplifiers and systems also provides the benefit of always having the latest equipment as all equipment is periodically replaced/upgraded to ensure that only the most current technology is deployed. During the lease contract, any emergency or routine support required can be provided as part of the agreement without any further costs to the user.



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Setting new standards in customer-driven innovation and performance

