SPACEBRIDGE
ALL THINGS CONNECTED

A World of Video Feeds

The requirement for UAVs is growing at an exponential rate, the demand for these unmanned capabilities in support of both civilian and military operations is placing a significant demand on broadband connectivity and operational costs. UAVs are being routinely used in support of:

- Disaster Recovery
- Border Protection
- Intelligence, Surveillance, Target Acquisition & Reconnaissance (ISTAR)
- Deployable weapon platforms

The requirement to gather and disseminate HD video feeds and the increasing need for global broadband connectivity can appear costly due to high bandwidth costs.

Satellites Provides Limitless Critical Communications

Satellites have played a key role in providing broadband solutions for critical applications for decades. With the revolution of High Throughput Satellites (HTS), capacity has become more affordable and available. Satellite communications links are used daily for commercial, governmental and military UAV missions.

SpaceBridge ASAT™ System is a satellite communications system with unique capabilities tailored for the demanding market of Security, Surveillance and UAVs.

ASAT II™ System

SPACEBRIDGE
ALL THINGS CONNECTED

ASAT™ System Security, Surveillance and UAV Solutions

ASAT™ System and Security Applications

The ASAT™ VSAT Routers may be deployed as both point-to-point and/or in hub-spoke configurations:
• Point-to-point links allow for setting up a small-scale solution while maintaining the VSAT Router investment when the service scales up
• Hub-spoke configuration allowing smart and efficient satellite resource usage.

Video feeds consume considerable capacity, but most security and UAV applications transmit video only at certain times; movement detection or in case of UAVs and drones, during the active part of the mission. With WaveSwitch™ technology, ASAT™ automatically allocates active UAVs their required capacity using SCPC links utilizing the highest spectral efficiency possible. Remaining UAVs are connected and still operational but will not consume fixed satellite resources – allowing an organization to manage it's video sources with agility and flexibility that can react to changing operational demands without paying premium satellite capacity.
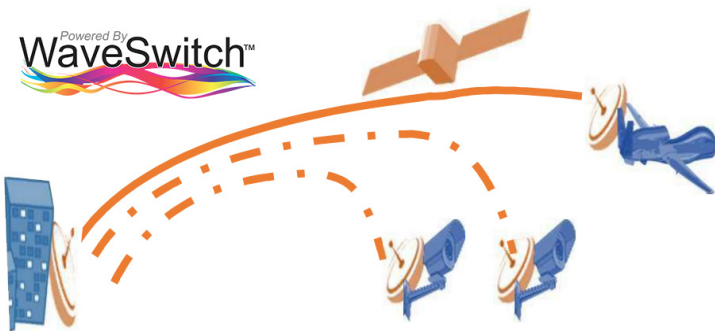
Efficient Dynamic Range Bandwidth Allocation

WaveSwitch™ technology allows the network to switch any terminal from 'bursty' MF-TDMA link supporting low Mbps, into a highefficiency SCPC links providing up to 100Mbps.

ASAT™ Ultimate Series VSAT routers perform the waveform switchover seamlessly allowing communications continuity at all times.

ASAT™ System manages both MF-TDMA links and SCPC links on a shared satellite capacity pool – ensuring more accurate and efficient capacity planning.

WaveSwitch™ technology only allocates satellite resources to active remote terminals

ASAT™ System Satellite Modems Suited for On-the-Move and Professional Applications

Powered with WaveSwitch™ technology for highest performance and satellite resources efficiency. Available in variety of form factors suited for demanding operational use, and supporting OpenAMIP allowing mission-critical on-the-move applications.