

SCPC/DVB S/S2

SST has extensive experience in VSAT and satellite communication industry, operating for more than 20 years of successful business. SST evolved into a one stop expert provider for all types of Satellite & Communication standard and custom solutions in the Middle East and Africa. From supply, delivery, installation, maintenance, and 24 x 7 x 365 support days for your to build and manage your own Network Operating Center (NOC) and satellite capacity provisioning SST will help you get your business up and running.

SST is operating its own SCPC, DVB-S/S2, IDirect hubs located in Egypt having aggregated satellite Ku-Band capacities from Yamal - 402 and SES-4 covering the entire Middle East, Africa, the Arabian Gulf, Red Sea, Mediterranean sea, and most parts of Europe.

SST, as value added service to customers, implemented, after careful study, an industry proven and vendor patented Satellite Link Acceleration Systems in its TCP/HTTP servers in the Main Hub and on the client side (CPE) - when required. This acceleration is over and above the built-in acceleration feature of every SST hardware implemented. Through this, SST further accelerates the link for more bandwidth saving and total network improved performance. This all leads to Customer Satisfaction and loyalty.



SST operates its own SCPC/DVB hubs in Egypt integrated with TCP/HTTP Acceleration Servers, Network Monitoring and operating within large satellite capacities.

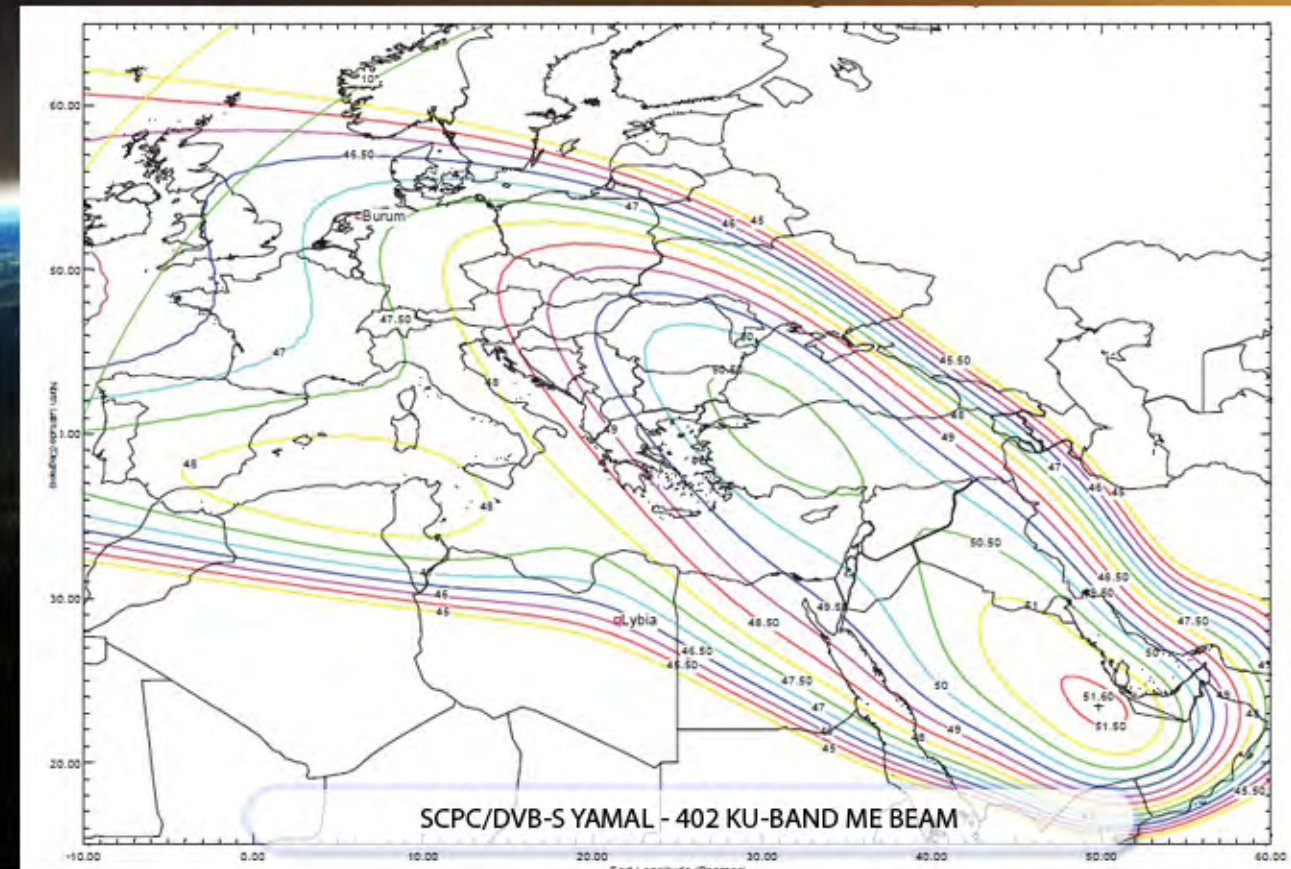
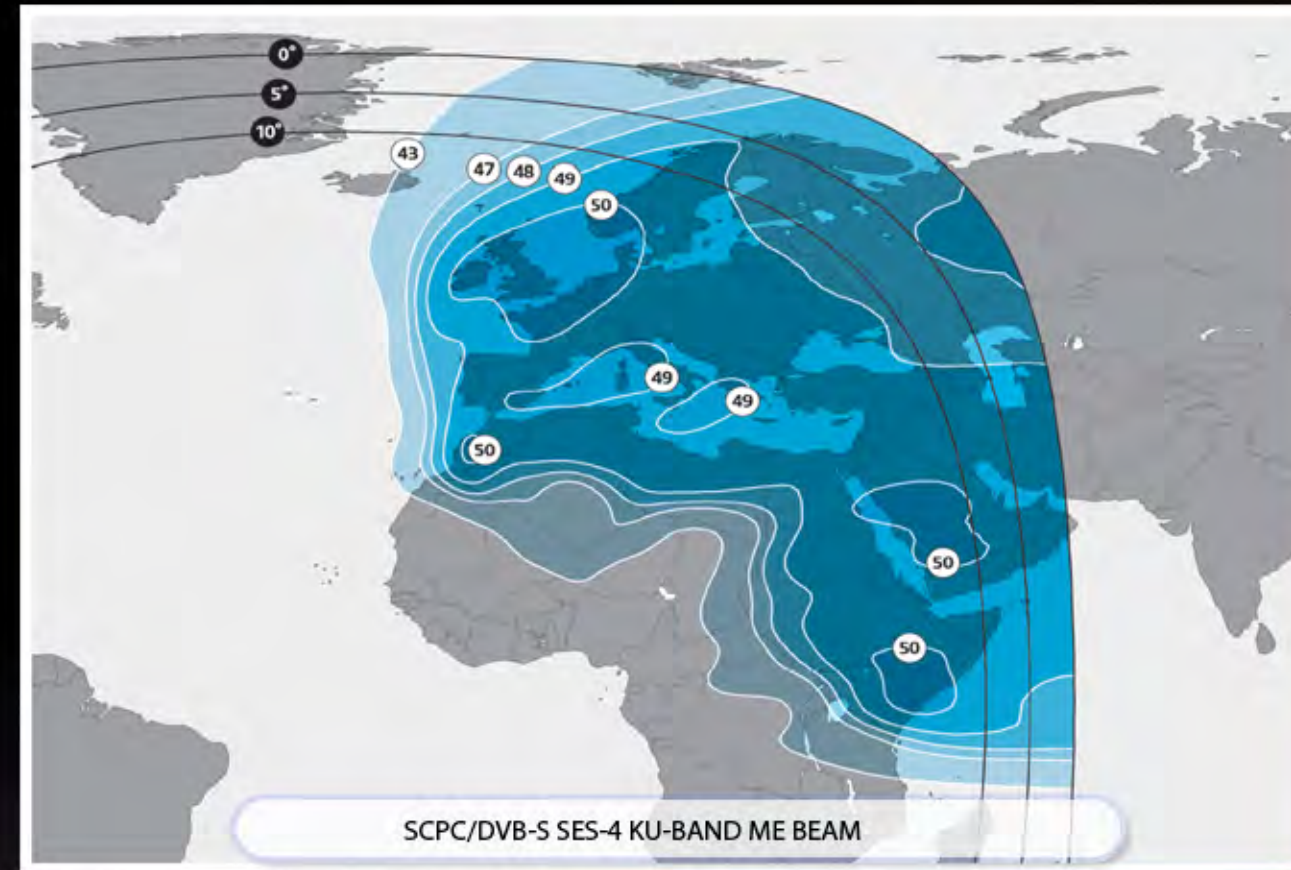
In an SCPC/DVB Network:

The forward link is based on the DVB-S/S2 standard (EN 300 421/ EN 302 307) used for digital video broadcasting. The forward link carrier rate can vary from 1- 45MBaud with data rates of up to 80Mbps (limited by terminal throughput). The forward link uses Multi-Protocol Encapsulation (MPE) of IP data into MPEG frames. An encapsulator is used in the Gateway for data encapsulation.

The return link is an MPEG-based SCPC carrier that utilizes the coding available in DVB-RCS. To maximize return link bandwidth efficiency, section packing is used in conjunction with MPE.

Four modulation modes QPSK, 8PSK, 16APSK and 32APSK.

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Capacities Available for the following satellites covering MIDDLEEAST, AFRICA, EUROPE Mediterranean Sea, Red Sea, and Arabian Gulf.

Coverage Maps
For Inquiries: Email: info@sst.com.eg



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EVOLUTION X3

Satellite Router



With DVB-S2 and Adaptive Coding and Modulation (ACM) on the outbound carrier and IDirect's patented, deterministic TDMA or SCPC Return channel, the Evolution X3 maximizes the efficiency of satellite capacity to enable new opportunities for star topology networking. The Evolution X3 is supporting a wide range of carrier IP data rates, FEC codes and modulation types.

FEATURES:

- Star topology (DVB-S2/ACM Outbound + Multi Frequency D-TDMA or SCPC Return*)
- DVB-S2/ACM outbound for greater efficiency and enhanced network availability
- Deterministic MF-TDMA or SCPC, Return channel
- Efficient 2D 16-State inbound coding
- Automatic end-to-end Uplink Power Control
- Built-in TCP acceleration
- Advanced QoS and traffic prioritization
- Optional AES 256-bit encryption



MODULATION:

- Downstream DVB-S2: QPSK, 8PSK, 16APSK
- Upstream TDMA BPSK, QPSK, 8PSK
- Upstream SCPC Return BPSK, QPSK, 8PS



IDIRECT 5300

Satellite Router



Developed specifically to support the business critical applications of enterprise customers, the INFINITI 5000 Series combines a flexible networking platform to deploy tailored topologies and configurations to support end users' most specific needs. The 5000 series is a satellite router designed for easy deployment, integrating a satellite modem, IP router, TCP acceleration and advanced QoS and prioritization capabilities. The INFINITI 5000 uses the high performance TDM on the outbound and IDirect's patented, deterministic MF-TDMA on the inbound, delivering speeds up to 20 Mbps on the outbound and up to 7.7 Mbps on the inbound.

FEATURES:

- Star / Mesh (TDM with Deterministic MF-TDMA), iSCPC (IP Only)
- High data rates of up to 20 Mbps outbound and 7.7 Mbps inbound
- Security and encryption
- Built-in TCP acceleration
- Advanced QoS and prioritization
- Efficient multi-frequency,
- Deterministic TDMA
- Automatic end-to-end uplink power control for higher network availability



MODULATION:

- Downstream (iNFINITI TDM) BPSK, QPSK, 8PSK
- Upstream (D- TDMA) BPSK, QPSK, 8PSK



IDIRECT 3000

Satellite Router



The 3000 Series Satellite Router is a star-topology remote satellite router designed as an easy-to-deploy solution integrating a satellite modem, IP router, TCP acceleration and advanced QoS and prioritization capabilities. The 3000 Series Satellite Routers use high performance TDM on the outbound and deterministic MF-TDMA technology on the inbound. The routers also come as a narrow-band model for multiple, smaller inbounds.

FEATURES:

- Star topology (TDM/MF-TDMA)
- High data rates 20 Mbps outbound, 5.9 Mbps return
- Narrowband model for multiple, smaller inbounds
- Built-in TCP and HTTP acceleration
- Advanced QoS and prioritization
- Efficient MF-TDMA return channel
- Automatic End-to-End Uplink Power Control for higher network availability
- Ethernet connection and L-Band interface
- Patented, deterministic multi-frequency TDMA on the inbound



MODULATION:

- Downstream : (iNFINITI TDM) BPSK, QPSK, 8PSK
- Upstream: (D- TDMA (D- TDMA) BPSK, QPSK

