

que-X Satellite C-Band Service Value Offer

The **que-X** satellite access provides two-way satellite communication from South Africa to any location in Africa. The service is targeted at South African companies operating remote operations in Africa and who requires reliable enterprise connectivity services.

General info	
CONNECTIVITY	Remote sites in Africa to teleport in Johannesburg, South Africa.
INDUSTRIES	Mining, Banking, Oil & Gas, Enterprise and Internet Service Providers.
ACCESS SERVICES	<ul style="list-style-type: none"> Secure Data Networks mover satellite Corporate data networks Secure access integration for ISP's and Corporate networks at top tier data centers in Southern Africa
FEATURES	<ul style="list-style-type: none"> High-capacity (+2Mbps) circuits Medium to large computer network (100 – 200 PC) users connectivity Point-to-point and shared contention circuits High availability, better than 99.5% Customer specific network solutions
TECHNOLOGY	<ul style="list-style-type: none"> C-Band Amos-5 Africa beam iDirect DVBS2 with highly efficient TDM returns Xiplink data acceleration and optimisation 1.8m or 2.4m customer equipment terminals
SUPPORT SERVICES	<ul style="list-style-type: none"> Remote customer monitoring portal 24 x 7 x 365 Monitoring Telephone support during office hours After hours standby



The **que-X** platform provides connectivity services from South Africa to Africa.



que-X is developed using the world leading iDirect Evolution satellite technology with DVB-S2 for high efficiency and ACM for reliability and robustness.

Open-access integration between the satellite network and customer terrestrial networks are available at the Teraco data centre.

TERACO
DATA ENVIRONMENTS

Business Connexion
Connective Intelligence™

Key Advantages and Benefits

Solution Engineering

The **que-X** satellite access solution is the result of more than 10 years' experience in the design, development and operation of satellite services for the African market.

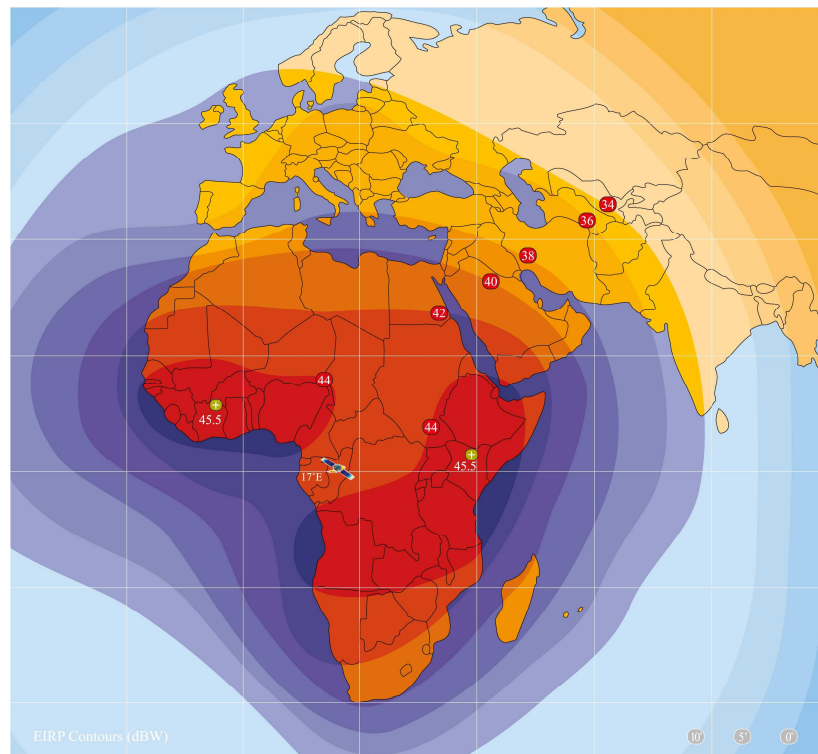
We are focused on providing customer centric solutions that are developed to meet your specific requirements and can include:-

- Flexible bandwidth model options.
- Customer specific service profiles incl. private carriers and dedicated circuits and contention able shared services.
- Telephony and video conferencing solutions.
- Managed Quality of services profiles for Video conferencing, voice and dedicated applications
- Integration with high end security networks over satellite.

Satellite Coverage

AMOS-5, launched in December 2011, provides circular C-Band coverage over Africa and establishes the new 17°E orbital position for Spacecom. AMOS-5 offers pan-African coverage and enables a full range of satellite services over Africa.

The **que-X** iDirect Evolution platform and teleport was established in September 2010 for the South African and African market. This platform is managed by a 24/7 Network Operations Centre in Centurion, South Africa to address the support in Africa.



Service Definition	Equipment Included
C-Band remote (up to 512kbps transmit)	1.8m C-Band Tx/Rx antenna; kingpost mount; 5W C-Band BUC, C-Band PLL LNB; 2x 50m IFL cable; iDirect Evolution X3 Satellite Router; Xiplink XA500C acceleration & compression engine (S-X services only); installation & grounding material.
C-Band remote (up to 1Mbps transmit)	2.4m C-Band Tx/Rx antenna; kingpost mount; 5W C-Band BUC, C-Band PLL LNB; 2x 50m IFL cable; iDirect Evolution X3 Satellite Router; Xiplink XA500C acceleration & compression engine (S-X services only); installation & grounding material.

S-X Service Acceleration Feature

S-X is a Satellite Acceleration option built into the **que-X** satellite platform which improves user response and data rates while reducing costs. The **S-X** option is implemented by the integration of the advanced Xiplink technology with the satellite network to offer content optimisation and service acceleration functions.



Xiplink appliances deliver the most advanced satellite optimization in easy to install appliances, right-sized for the bandwidth and number of users at each location. For small and medium sized sites, set-top-box appliances are easily installed without the need for trained IT staff. Optimisation includes a combination of protocol acceleration, streaming data compression and internet web browsing enhancements.

Performance Enhancements	
<p>Streaming Data Compression <i>Maximize the satellite link bandwidth</i></p> <ul style="list-style-type: none"> • Delivers 2x to 10x in bandwidth gain • Reduces the number of packets 	<p>Security - Optimize Encrypted Data <i>Install with any type of encryption</i></p> <ul style="list-style-type: none"> • Integrated IPsec VPN encryption option
<p>Internet Optimization <i>Makes web surfing fast</i></p> <ul style="list-style-type: none"> • HTTP Acceleration • Dynamic Web Cache hardware option 	<p>Voice Optimization</p> <ul style="list-style-type: none"> • ROHC Header Compression

S-X Satellite Network implementation using Xiplink data optimization technology

