



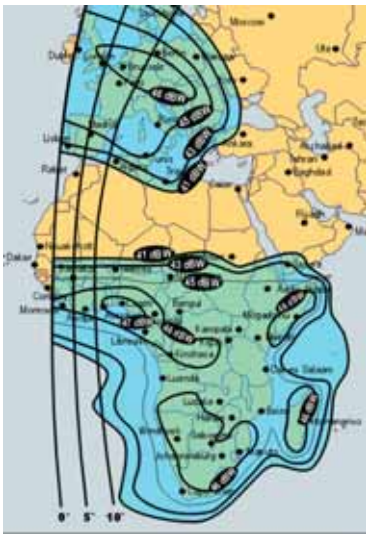
Afri  
Connect

# SatIP

## Ku-Band IP VSAT Solution

- High Bandwidth Internet Connectivity Solution
- No Phone Lines required, No Dial-Up, "Always On"
- Ideal for Broadband rather than Mission Critical Applications

VSAT technology represents a cost effective solution for users seeking an independent communications network connecting to the global Internet. VSAT networks offer value-added satellite-based services capable of supporting not only access to the Internet, data, LAN, voice/fax communications, but also providing powerful, dependable private network communications solutions.



SatIP Footprints  
- PAS10 (Blue)



The AfriConnect SatIP service operates at Ku-band to minimise costs and provides downlink speed from 128Kbps – 2Mbps, with capped and uncapped usage options and return links up to 76.8Kbps guaranteed link speed.

SatIP is ideal for small office applications of 5 to 15 PCs maximum, dependent on the level of simultaneous Internet usage by each workstation. All PC on the network should have anti-virus software installed to prevent problems.

## Terminal Description

The AfriConnect SatIP service also uses industry-leading technologies including embedded TCP/IP functions coupled with unique Internet browsing acceleration technologies that provides high performance and an excellent user experience.

The standard SatIP system is supplied with a 1W L-Band Block Up Converter (LBUC) and Low Noise Block Down Converter (LNB), to receive and transmit data to the satellite, with a 1.2m dish. This enables basic service provision with return channels up to 76.8Kbps, with guaranteed minimum throughput.

For higher availability applications, or higher guaranteed throughputs a 1.8m antenna may be required.



Ku-Band VSAT Terminal  
Outdoor Dish & RF

# Ku-Band IP VSAT Solution

## NETWORK

Architecture: Two-Way, star topology  
 Protocols Supported: TCP/IP  
 Frequency Bands: Ku-Band  
 IP Protocols: TCP, UDP, ARP, ICMP, IP  
 Addressing: Private and public

### Benefits of SatIP - IPOD Terminal

- Viterbi and Reed-Solomon F
- FTDMA inbound



## TERMINAL

### Outdoor Unit

Antenna Size (typical): Ku-Band: 1.2 m & 1.8m (1.2 m under request)  
 Operating Temperature: -40° to +60°C  
 Humidity: Up to 100%  
 Transmitter ODU: 1W Ku-band  
 LNB: Proprietary  
 UP - Converter: Proprietary SSPA

### Indoor-Unit

RF Input/Output: Two F connectors, 75. female  
 Data Interface: 10BaseT  
 Size: 213mm x 220mm x 88mm  
 Weight: 1.8 kg  
 Operating Temperature: 0° to +50°C  
 Storage Temperature: -20° to +70°C  
 Relative Humidity: 10 to 90%



## Interconnection to Internet and VoIP Switch

The network is designed to operate via the Internet backbone. The network supports VoIP and a VoIP connection to the public phone network is offered.

## Project Support

- AfriConnect will manage the whole project to ensure that installation is timely and an Ethernet interface to any existing networks is operational.
- Customers will be responsible for obtaining their own VSAT licenses in some countries. AfriConnect can also provide initial assistance and examples of how to apply, and what has been successful for other users.

## Maintenance Options

- AfriConnect's SatWise product can also be used to provide a "network in a box" solution with many added security and management features.
- It is strongly recommended that a suitable UPS be provided for each SatIP units if no generator supplied/UPS is available at each office.
- Support would normally be provided via email or over a phone line, including remote access to the client network over the new satellite link. This support will be proactive in ensuring that the system is working and that all traffic is getting through in timely fashion.

		Service Level			
		Silver	Gold	Gold Plus	Platinum
Performance	<b>Technical Support</b>	Mon - Fri	7 Days Per Week	7 Days Per Week	365 days
		Office Hours	Office Hours	Office Hours	24 hours
	<b>Remote Access</b>	No	No	Yes	Yes
	<b>Hardware Replacement</b>	No	No	No	Within 48 Hours
	<b>Hardware Warranty</b>	12 months	12 months	12 months	12 months
	<b>Software Warranty</b>	3 months	Yes	Yes	Yes