

# Wireless Connectivity

DATA • INTERNET



VSAT • BROADBAND • VPN SOLUTIONS • HF/VHF RADIO • INTERNET • CONSULTANCY • DATA SECURITY

[www.simbanet.net](http://www.simbanet.net)



**B**usiness people in today's integrated economy require ready access to data in order to make quick decisions and stay ahead of competitors. SimbaNET's wireless connection offers your business the latest and most up-to-date solution to wireless connectivity.

SimbaNET's wireless solution has been configured to be used for either closed data provision or for internet service by ISPs.

In an effort to make internet and data connectivity affordable to many, SimbaNET offers SimbaBay, a product that allows easy connectivity within buildings, university campuses and hotels.

The advantages of wireless connectivity over fixed line connectivity are mainly:

- ease of implementation;
- high bandwidth;
- mobility—allows organisations to move offices easily within a certain location;
- it's economical for sites where fixed line facilities are not present;
- it is sometimes more reliable than fixed line (usually in areas with old fixed line facilities).

# Wireless DATA

[technical data]

## Point to Multi-point

In addition to the traditional point-to-point, SimbaNET offers an attractive point-to-multi-point solution for ISP's and corporate connectivity. With this solution, you can have a higher bandwidth to the main location and lower capacity to all the sub-locations. In this way you can make substantial future savings when increasing locations.

## SimbaAccess

In offering wireless data connectivity SimbaNET connects you to its infrastructure which uses SimbAccess equipment licensed at 3.5GHz frequency band.

## Connection Speeds

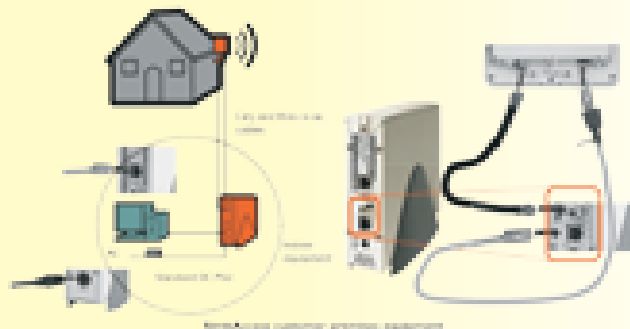
The table below shows the available speeds.

Availability/Speed with Wireless Connection

Dedicated Bandwidth (Kb/s)							
	64Kb/s	128Kb/s	256Kb/s	512Kb/s	1024Kb/s	536Kb/s	2048Kb/s
Available	x	x	x	x	x	x	x

### SimbAccess highlights

- Fast Access to the Internet and other IP based Services
- Packet-switched technology – optimized for IP communications
- Immediate Connectivity - Subscriber is "Always On"
- No Line of Sight (NLOS) requirement
- High Speed – up to 14 Mbps per Subscriber
- Simultaneous high-speed data and telephony
- Large Coverage – Cell Radius of up to 16.9km (10.5 mi.)
- Symmetric/Asymmetric CIR & MIR per subscriber
- Managed Quality of Service (QoS) per subscriber
- Broadband services: VPNs, VLANs
- SNMP Management Support
- RADIUS Accounting Support
- Mature, Field-Proven Technology
- FDD and FH-CDMA Technology for robustness and immunity to interference



# Wireless INTERNET

[technical data]

## Managed Firewall

We can install, configure and maintain your firewall server and provide fast, flexible response to any re-configuration requirements. Our managed firewall ensures the highest standard of security for your network.

## Domain Name Registration

We register and host additional domain names.

## SimbAccess

In offering wireless Internet connectivity SimbaNET connects you to its infrastructure which uses SimbAccess equipment licensed at the 3.5GHz frequency band.

## Connection Speeds

The table below shows the available speeds.

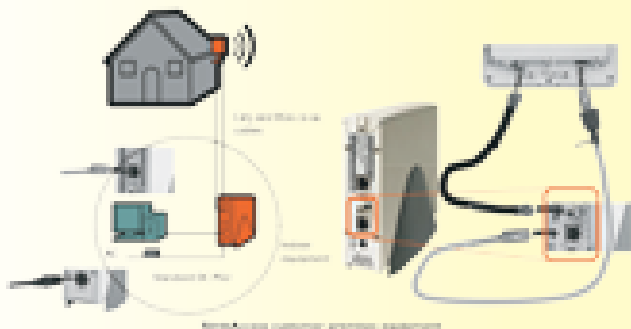
Internet Availability with Wireless Internet Connection

		Downstream DVB					
		64Kb/s	64Kb/s	128Kb/s	256Kb/s	512Kb/s	
		(CIR)*	16Kb/s	32Kb/s	64Kb/s	128Kb/s	256Kb/s
Upstream	16Kb/s	x	x	x			
	32Kb/s		x	x	x		
	64Kb/s			x	x	x	
	128Kb/s				x	x	x

\*CIR = Committed Information Rate

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- For internet connectivity, SimbaNET's connection has the following advantages:
  - a dedicated bandwidth and Committed Information Rate (CIR)
  - all links with CIR have a burstable option. – a link that reaches full utilisation will be able to burst out to gain extra bandwidth, thus avoiding congestion and increasing throughput
  - no line of sight requirement for wireless equipment
  - warranty on equipment
  - SimbaNET users can monitor their bandwidth online

## Examples of wireless connectivity usage:

- internet connection to ISP;
- sharing internet connection from head office to branches;
- email;
- organisation-wide intranets and interconnection of LANs;
- video conferencing;
- database transactions;
- voice communication;
- data backup to remote sites;
- interlinking factory sites with head offices.

## Considerations in selecting the wireless option:

- distance – we recommend the wireless option for a distance not greater than 17km.



## Support



The SimbaNET advantage includes:

- industry leading service level agreement;
- 24hr x 7 days a week support desk manned by experienced engineers;
- 24hr x 7 days a week monitoring and fault detection;
- state-of-art network components from leading vendors;
- easy, flexible upgrades.

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... Keeping Africa Ahead

