

# SAFARI

## Land Vehicular BGAN Terminal



### Easy to Understand. Easier to Use...

**The SAFARI™ is a Land Vehicular BGAN Terminal operating on the Inmarsat BGAN Satellite Network.**

The SAFARI™ has one of the smallest Land Vehicular BGAN antennas in the market at 252 mm Dia x 119.12 mm H (9.9 in. Dia x 4.7 in. H) and weighs only 1.9kg (4.2 lbs.). The complete system consists of three fully integrated units – an IP44 rated Transceiver Unit (TU) with built-in Wi-Fi, an IP66 rated Handset and an IP56 rated roof mounted Antenna Unit (AU). The Antenna Unit is compact and lightweight, ideal for vehicles on-the-move. It has been designed for the most demanding environments – and is easy to carry when traveling to various locations around the world.

The SAFARI™ Land Vehicular BGAN Terminal offers the user standard voice (4kbps AMBE+2), optional 3.1 KHz high quality voice/fax, high speed Streaming and Standard IP data service for various applications, including internet browsing, email and file transfer functions.

The terminal allows simultaneous use of all services including voice/fax, data and SMS. Physical interfaces include, 2 x RJ-11 for Voice and Fax, 2 x RJ45 for Ethernet LAN connections, a RS232 port for GPS output and 4 x GPIOs, for external control or indications.

The antenna has built-in magnetic roof mounts. Simply place the Antenna Unit on the roof of the vehicle. connect it to the Transceiver Unit and connect the SAFARI to the vehicle's power source. The vehicle is now a mobile communications hub. which multiple users can access at the same time via the wired interfaces and the standard built-in Wi-Fi feature. The SAFARI is so versatile that the Built-in WebConsole of the unit can be accessed via any web browser including Wi-Fi-enabled Smartphones such as BlackBerrys. iPhones. iPads, and PDAs via the SAFARI'IM's secure Wi-Fi connections.

The SAFARI also has a continuous GPS output feature which allows for GPS data to be sent out via the RS232 port in standard NMEA 0183 format. With in-built GPS module. SAFARI is able to provide tracking and monitoring required in fleet management applications.

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## Land Vehicular BGAN Terminal

### Specifications

Type Approval Certificate:  
Certification mark: FCC, CE, Industry Canada  
GMPCS MoU - ITU REGISTRY  
Compliant to RoHS, WEEE Logo  
Wi-Fi compliant IEEE802.11 b/g

#### Operating Frequency

Transmit : 1626.5MHz- 1660.5MHz  
Receive : 1525MHz -1559MHz

**Transceiver Unit to Antenna Unit RF Cabling max loss**  
12dB at 1.6GHz and 4 Ohms DC loop resistance

#### Services

Voice : 4kbps AMBE+2  
Streaming IP : 32,64 or 128kbps (send & receive)  
Short Message Service(SMS): Up to 160 characters (3G standard)  
Larger SMS content(> 160 characters): supported as multipart or segmented SMS  
Background IP Data: Up to 448f464kbps (send & receive)

#### Router Functions

Single User Router Mode NAT disabled, with option to enable/disable DHCP (Modem mode)  
Multi-User Router Mode NAT disabled, with option to enable/disable DHCP

#### Interfaces

2 x RJ-45 Ethernet ports (one is Power over Ethernet (PoE) port)  
1 x Primary Handset connector  
1 x GPS output connector (NMEA-0183, Offset latch RJ11)  
WLAN 802.11 bfg built-in  
1 x Antenna Connector:  
-Transceiver Unit: TNC female  
-Antenna Unit : TNC female  
2 x Standard phone port (RJ11) for FAX and phone  
1 x SIM Card Slot  
3 x Status indicator LED  
1 x Power On/Off switch  
1 x DC Power Input socket  
1 x Ground stud connector  
1 x GPIO signal port connector  
- 1 x Transmitter On/Off  
- 1 x Ignition On/Off  
- 1 x Buzzer  
- 1 x Illuminate Remote On/Off  
1 x Safe Mode switch  
1 x Circuit breaker reset switch

#### Power Supply

DC input : +12V /24V (+10.8V to 32V)  
Power (Max) :60Watts

#### Physical Data

Dimension: Transceiver Unit: 340 x 253 x 61.5 mm  
13.4 X 10.0 X 2.4 in  
Weight :Transceiver Unit: 3.5Kg 7.7lbs  
:Antenna Unit : 1.9Kg /4.2 lbs

#### Environmental Conditions

Transceiver Unit  
Operating Temperature : -25°C to +55°C  
Storage Temperature : -40°C to +80°C  
Operating humidity : 95% non-condensing at +40°C  
Ingress protection : IP44

#### Antenna Unit

Operating Temperature : -25°C to +55°C  
Storage Temperature : -40°C to +80°C  
Operating humidity : 95% non-condensing at +40°C  
Ingress protection : IP56  
Turning Rate : 60 deg/ second  
Turning acceleration : 50 deg/ second

#### Primary Handset

Display : 2 inches, 65K color, 220 x 176 pixel  
: 2" TFT Liquid Crystal Display  
Dimension : 142 x 56 x 22 mm  
: 5.6 X 2.2 X 0.9 in  
Weight : 390g / 0.8 lbs  
Operational Temperature : -20°C to +55°C  
Storage Temperature : -30°C to +70°C  
Ingress protection : IP66

#### Feature Highlights of Primary Handset

- Configuration setting
- Basic circuit switched telephone functions
- Phone book retrieval from the SIM card
- Call Log for most recent 5 missed, received and dialed calls with date and time stamps
- Short Message Services (SMS)
- User friendly Menu driven graphical user interface
- Hands free Headset

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