

# Safari Vehicular BGAN Terminal

A land vehicular BGAN terminal operating on the Inmarsat BGAN network.

Compact and lightweight, Safari has been designed to provide reliable connectivity to vehicles on the move.



## Overview

The Safari has one of the smallest land vehicular BGAN antennas in the market at 252mm x 119.12mm and weighs only 1.9kg. 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).

### Designed for vehicular use

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 travelling 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 2x RJ-11 for Voice and Fax, 2x RJ45 for Ethernet LAN connections, an RS232 port for GPS output and 4x GPIOs for external control or indications.

## Details

|               |   |
|---------------|---|
| Manufacturer: | • Wideye  |
| Network:      | • Inmarsat  |
| Device Type:  | • Module  |
| Markets:      | • SCADA / Telemetry<br>• Utility<br>• Military<br>• OEM<br>• Tracking |

## Technical Specs

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### Certification and Compliance:

- FCC, CE, Industry Canada
  - GMPCS MoU - ITU Registry
  - RoHS, WEEE Compliant
  - Wi-Fi IEEE 802.11b/g
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### Services:

- Voice: 4kbps AMBE +2
  - Steaming IP: 32, 64 or 128kbps (send and receive)
  - SMS: Up to 160 characters (3G standard)
  - Larger SMS content: supported as multipart or segmented SMS
  - Background IP Data: Up to 448 / 464kbps (send and review)
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### Services: **IS THIS CORRECT?**

- 2x RJ-45 Ethernet ports (one is PoE)
- 1x Primary Handset connector
- 1x GPS output connector (NMEA-0183, Offset latch RJ11)
- WLAN 802.11b/g built-in
- 1x Antenna Connector:
  - Transceiver Unit: TNC female
  - Antenna Unit: TNC female
- 2x Standard phone port (RJ11) for fax and phone
- 1x SIM Card slot
- 1x Status Indicator LED
- 1x GPIO signal port connector
  - 1x Transmitter ON/ OFF
  - 1x Ignition ON/ OFF
  - 1x Buzzer
  - 1x Illuminate Remote ON/ OFF

### Operating Frequency:

- Tx: 1626.5MHz - 1660.5MHz
  - Rx: 1525MHz - 1559MHz
  - Transceiver Unit to Antenna Unit Cabling max loss 12dB at 1.6GHz and 40hms DC loop resistance
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### Router Functions:

- Single User Mode: NAT disabled with option to enable/ disable DHCP
- Multi User Mode: NAT disabled with option to enable/ disable DHCP

### Power Supply:

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

### Environmental Conditions:

#### Transceiver Unit

- Operating temperature: -25 to +55C
- Storage temperature: -40 to +80C
- Operating humidity: 95% non-condensing at +40C

#### Antenna Unit

- Operating temperature: -25 to +55C
- Storage temperature: -40 to +80C
- Operating humidity: 95% non-condensing at +40C