



SAFARI™

Land Vehicular BGAN Terminal

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.

SPECIAL FEATURES

- Forced Dialing
- Restricted Dialing
- Call Prioritisation
- Remote Access
- Backup/Restore of Configuration Settings
- Remote Transmitter Off via GPIO
- SIM Lock based on IMSI/DP Code/SP Code/APN
- Multilingual WebConsole
(English, Spanish, Chinese (Simplified & Traditional))
- Multi-User access with configurable access rights
- Time/Volume limited data sessions
- Firewall
- Fleet Tracking Capability - Geofencing, up to 10 polygon areas can be configured
- MAC Filtering
- Port Forwarding
- Hands Free Operation



Technical Specifications

Type Approval Certificate:
 Certification mark: FCC, CE, Industry Canada
 GMPCS MoU – ITU REGISTRY
 Compliant to RoHS, WEEE Logo
 Wi-Fi compliant IEEE802.11b/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 448/464kbps (send & receive)

Router Functions

Single User Router Mode : NAT disabled, with option to enable/disable DHCP (Modem mode)
 Multi-User Router Mode : NAT enabled, 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 802.11b/g 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
 : Antenna Unit : 252 mm (Dia) x 119.12 mm (H)
 : 9.9 in (Dia) x 4.7 in (H)
 Weight : Transceiver Unit : 3.5Kg / 7.7 lbs
 : 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/ second2

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

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 Web-Console 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™'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.

Contact Addvalue's authorized distributor



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