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
- MAC Filtering
- Port Forwarding

www.wideye.com.sg

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
(Modem mode)   to enable/disable DHCP
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
                             13.4 x 10.0 x 2.4 in
          : 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/ second$_2$

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 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™'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.

addvalue enabled

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