

SAFARI™ & SAFARI™ 10

Land Vehicular BGAN Terminal



The SAFARI™ and SAFARI™ 10 are Land Vehicular BGAN Terminals operating on the Inmarsat BGAN Satellite Network. Both of the units have one of the highest dynamic Land Vehicular BGAN antennas in the market with a turning rate of 60° per second (full circle in 6 seconds) 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). Both Antenna Units are 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. Both Antenna units are designed to withstand windloading of up to 210 km/hour (130mph) with the included magnetizing mounting kit.

The SAFARI™ and the SAFARI™ 10 Land Vehicular BGAN Terminals offer the user standard voice (4kbps AMBE+2), 3.1 KHz high quality voice/ fax, and Streaming (up to 128kbps for the SAFARI™ and up to 256kbps for the SAFARI™ 10) and Standard IP data service (up to 448/464 kbps send/receive for the SAFARI™ and 492kbps send/receive for the SAFARI™ 10) for various applications, including internet browsing, email and file transfer functions.

Both terminals allow simultaneous use of all services including voice/fax, data and bonded multiple SMS messages. 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

- Firewall (full-featured)
- Fleet Tracking Capability - Geofencing, up to 10 polygon areas can be configured
- Wi-Fi Access Point (802.11b/g)
- Push-To-Talk (PTT)
- Forced Dialing - SAC Configuration Control
- Restricted Dialing (for crew calling)
- Handset call priority (allow Handset to pre-empt other active calls)
- Remote Access (for Configuration and Diagnostics)
- Backup/Restore of Configuration Settings
- Remote Transmitter Off via GPIO (Radio Silence)
- SIM Lock based on IMSI/DP Code/SP Code/APN
- Multilingual WebConsole (English, Spanish, Chinese (Simplified & Traditional), Dutch and Japanese)
- Multi-User WebConsole with configurable access rights
- Time/Volume limited data sessions (to avoid bill shock)
- PPPoE
- MAC Filtering
- Port Forwarding
- Hands Free Operation
- Remote Management (using SMS/AT Commands)
- IP Watchdog (for failsafe operation)
- External Ringer Control
- Supports 11 PDP Contexts simultaneously



The customer has a choice of Antenna Colour, either White or Tan for both the SAFARI™ and the SAFARI™ 10.

Both antennas have built-in magnetic roof mounts, which are provided as standard. Simply place the Antenna Unit on the roof of the vehicle, connect it to the Transceiver Unit and connect the unit 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™ and the SAFARI™ 10 are so versatile that the Built-in WebConsole of the unit can be accessed via any web browser including Wi-Fi-enabled Smartphones such as Black-Berrys, iPhones, iPads, Android phones and PDAs via the units secure Wi-Fi connections.

Both units also have 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, the units are able to provide tracking and monitoring required in fleet management applications.

Physical Data		SAFARI™	SAFARI™10
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 119.12mm (H) 9.9 in (Dia) x 4.7 in (H)	494 mm (Dia) x 151.5 mm (H) 19.45 in (Dia) x 5.96 in (H)
Weight:	Transceiver Unit:	3.5Kg / 7.7 lbs	
	Antenna Unit:	1.9Kg / 4.2 lb	5.5Kg / 12.1 lb

Technical Specifications

Type Approval Certificate:
Certification mark: FCC, CE, Industry Canada
GMPCS MoU – ITU REGISTRY
Compliant to RoHS2, 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
Fax : G3 Fax (>45° elevation for SAFARI™)
: G3 Fax (>20° elevation for SAFARI™10)
Streaming IP : 32, 64, 128, for SAFARI™
: 32, 64, 128, 256kbps for SAFARI™10 (>45°
for 256kbps)
Short Message Service(SMS): Up to 160 characters (standard)
Larger SMS content (> 160 characters); supported as multipart or segmented SMS
Background IP Data : Up to 448/464 kbps for SAFARI™
(send & receive)
: Up to 492kbps for SAFARI™ 10
(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 Grounding stud connector
1 x GPIO signal port connector
- 1 x Transmitter On/Off
- 1 x Ignition On/Off
- 1 x External 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) - w/o PoE : 60Watts

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 lb
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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