

The Football - A Self-Pointing BGAN Satellite Terminal



Easy-To-Use Global Broadband Internet Case

The Football is a high-speed global wireless Internet hotspot using the BGAN satellite service for broadband speeds of up to 460 Kbps. This fully automatic system is enclosed in a durable all-weather case that stays closed for full functionality. Access ports on the case allow for Ethernet and Phone connections (as well as optional ISDN and FAX lines). When turned on, the self-pointing electronics establish a BGAN satellite connection, and create a 100' radius wireless access point for any in-range device... all this in about 1 minute.



Manufactured by Ground Control

Ground Control has been a mobile and portable satellite system leader since 2002. Like our transportable mobile satellite dishes, we build each Football case in our plant in California with components that operate in extreme environments. We are also BGAN service and equipment experts, and can deliver the highest global broadband speeds possible in a small, portable case solution. Simplicity and Performance is our goal.

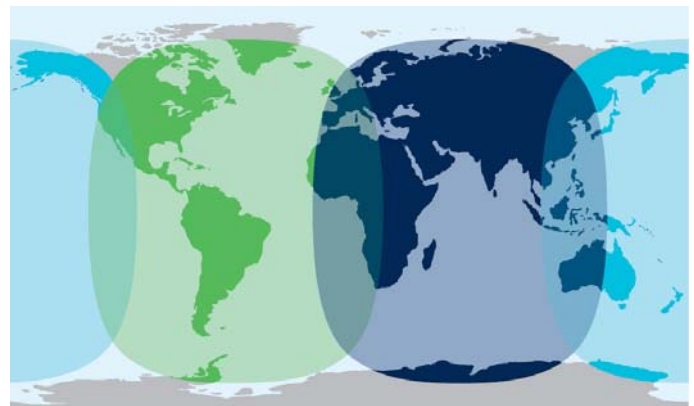
Simple Operation - No User Training

Operation is as easy as laying the case flat under an open sky and turning the key on. In one minute, a wireless access point will become available for any in range device. Each case will operate for 9+ hours on a single charge, or operate continuously while plugged in any vehicle DC power port, or AC wall plug. An optional foldable solar panel even allows for easy recharging in areas where power is unavailable.

The Football Features

- ▶ **No Pointing or Aiming.** Simply turn the unit on under a sky.
- ▶ **Does Not Require User Interaction.**
- ▶ No Software To Run. Establishes AP automatically.
- ▶ Ruggedized. Operates in extreme conditions.
- ▶ 100' range wireless AP (Access Point) for ANY device.
- ▶ Internet speeds up to 460 Kbps in both directions.
- ▶ External all-weather Ethernet port (RJ-45)
- ▶ External all-weather phone port (RJ-11 Any standard phone)
- ▶ Over 9 hours of battery life (rechargeable) for normal use.
- ▶ Additional external battery packs may be ordered.
- ▶ May be plugged into vehicle 12V power for continuous use.
- ▶ Operates at -13°F to 130°F (-25° C to +55° C) temperatures.
- ▶ Operate on top of any moving vehicle, boat or other object.
- ▶ Operates in heavy rain, and up to 20mm of ice build-up.
- ▶ Watertight, crush resistant, dustproof reinforced plastic case.
- ▶ The Football operates globally (except for the poles)
- ▶ Portable - Ships UPS, FedEx, Flight luggage anywhere.
- ▶ Full IP compatibility - Internet, SMTP email, FTP and VPN.
- ▶ Global public (static) IP addresses available
- ▶ Cost effective "always-on" access. Pay for only what is used.
- ▶ BGAN Service and Support provided by Ground Control.
- ▶ Manufactured by Ground Control

Global Coverage - One Service Plan





The Football is portable enough to transport anywhere and will operate on a single charge for 9+ hours of normal use. Even in no-power situations, a foldable solar panel will recharge the system in one day.



Since the case never needs to be opened to operate, it can be used in any extreme location. The external power cable is connected, and the LAN watertight cap is removed to show an Ethernet jack.



Simply place The Football under the open sky, on top of a car, on a boat, on a balcony and turn it on. The Wireless "b" access point will connect any in-range devices such as laptops and smartphones.



Use any standard wired or wireless phone to connect to the case phone (RJ-11) port. We recommend a phone that does not require external power to function. There is room inside of the case to store items such as a phone as the one shown above.



Since the case never needs to be opened to operate, it can be used in any extreme location. All external ports are sealed. Note that case should be at least 2 meters from any person during operation.



The Football requires line of sight to one of three stationary BGAN satellites so placing it on top of a car avoids blocking a signal. If this case were secured to a roof rack, the car may be moving and stay connected.



Create a mobile office anywhere on the planet with high-speed Internet, phone, Fax, and ISDN. All are 60 seconds away in the most extreme environments.

The Football Specifications

BANDWIDTH & NETWORK (Inmarsat BGAN Using Ground Control BGAN Service Plans)	
Connection Time (From a cold start).....	1 minute if GPS is current. Up to 3 minutes if not.
Download/Upload Internet Speeds.....	Up to 460 Kbps in both directions.
Wi-Fi.....	802.11b - 100' radius range.
DHCP.....	Default Setting.
External Ports.....	Ethernet RJ-45, Phone RJ-11, Power/Charge Port.
Public (Static) IP Address.....	Optional.
Wireless Security.....	WEP 64 & 128 bit, MAC Filtering.
Networkable clients machines.....	Up to 11 simultaneous connections.
Streaming Services (1:1 CIR).....	32Kbps, 64Kbps, 128Kbps.
ISDN.....	ISDN Data at 64Kbps at 45° look angle or greater.
FAX.....	3.1 kHz audio RJ-11 Internal port.
Web Interface.....	For all device types including smartphones.

SYSTEM CHARACTERISTICS

Case Colors Available.....	Yellow, Black, Silver, Orange, Desert Tan.
Exterior Dimensions	20.7"L x 17.2"W x 8.6"H (52.6 x 43.7 x 21.7 cm).
Weight.....	40 lbs (18.14 kg).
Internal Battery Life.....	9.5 Hours (4.5 hours if continually transmitting).
Recharge Time	8 hours from fully discharged.
Humidity.....	95% RH at +40°C.
Operating Temperatures.....	-13° F to 130° F (-25° C to +55° C) operating.
Rain/Water/Dust Ingress.....	IP-54 when case is closed.
Wind.....	If case is secure, it is not affected by wind.
Ice.....	20mm of ice buildup before non-operation.