

“THE FOOTBALL”

Global Broadband Wireless Hotspot



The Football is a Mobile, Auto-acquire, BGAN Satellite Unit in an IP67 Waterproof

Easy-To-Use Global Broadband Internet Case

Simply lay the case flat under the sky and press the power button inside the case. **In one minute** the MCD-4800 will connect with a BGAN satellite and establish a wireless hotspot for any in-range devices. Nicknamed “The Football”, this auto-tracking BGAN terminal delivers broadband speeds of up to 464 Kbps to 11 concurrent wireless devices, all housed in a durable all-weather case that stays closed for full operation. External ports on the case are for Ethernet (RJ-45) and a standard phone port (RJ-11) for making and receiving phone calls.



Manufactured by Ground Control

Ground Control is an industry leader in mobile and portable satellite connectivity since 2002. Like our popular line of Toughsat mobile satellite systems, we build each MCD-4800 with components designed for extreme environments.

No User Training - Global Operation

Simplicity and performance were our goals when developing the MCD-4800. There is only one button, so once it's turned on, everything is automatic. Each case will operate for up to 5 hours on a single charge or operate continuously while plugged in any vehicle DC power port or any 110 or 220 VAC wall outlet.

Service for the MCD-4800

The MCD-4800 will operate with any Inmarsat BGAN service provider, however, Ground Control's BGAN servers at Inmarsat deliver excellent broadband speeds no matter where you take the MCD-4800 on the globe.

The MCD-4800 Features

- ▶ No pointing - simply turn the unit on under the sky.
- ▶ Does NOT require user interaction after turning it on.
- ▶ No software to run. Establishes Wi-Fi hotspot automatically. Up to 5 hours of internal battery life for normal use.
- ▶ Case operates stationary or moving on land and ocean.
- ▶ Ruggedized hardened plastic case. All weather operation.
- ▶ Up to 100-meter Wi-Fi range for up to 11 wireless devices.
- ▶ Internet speeds of **464 Kbps download** by **448 Kbps upload**.
- ▶ Includes corded standard analog phone.
- ▶ External Ethernet port (RJ-45). Capped when not in use.
- ▶ External phone port (RJ-11) for any corded or cordless phone.
- ▶ May be plugged into vehicle 12V power for continuous use.
- ▶ Operates at -25°C to +70°C (-13°F to 158°F) temperatures.
- ▶ May operate on any moving vehicle, boat or other platform.
- ▶ Operates in heavy rain, and up to 20mm of ice build-up.
- ▶ Internal fan keeps internal electronics cool in hot weather.
- ▶ The MCD-4800 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 are available.
- ▶ Usage only or prepaid service plans available.
- ▶ BGAN service and support provided by Ground Control.
- ▶ The MCD-4800 is manufactured by Ground Control.

Global Coverage - One Service Plan





Satellite Connectivity

Also A Wireless Access Point Up To 100 Meters

Simply place the MCD-4800 under an open sky, on top of a rock, a moving car, an ocean vessel and turn it on. It connects to the satellite and creates a Wi-Fi hotspot for any in-range laptops or other IP wireless devices.



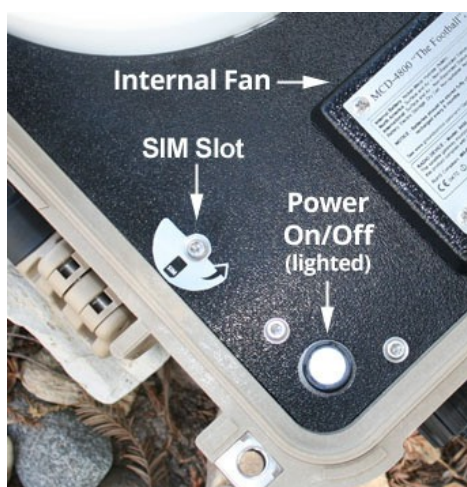
An Ethernet LAN port (RJ-45 with PoE) is available for hardwire connections. When not in use, it is capped to waterproof the case, and waterproof Ethernet connectors are available. Also note the stainless-steel bumpers to help protect the front panel from impacts.



Inside the case is the auto-pointing antenna which is excellent for ocean going vessels and oil rigs. With the lid open or closed, the terminal operates for up to 5 hours on internal battery, or continuously if power is available.



The MCD-4800 includes a standard 2-wire corded phone, however, any standard corded or cordless phone will work. The RJ-11 phone port gives a standard dial-tone and each is issued a satellite telephone number.



Inside the case is a lighted power button and the SIM card tray. The internal fan helps keep electronics cool if temperatures rise. It is recommended to open the case to help vent excess heat buildup in hot weather.

Web Based Status and System Settings



The MCD-4800 web interface can be accessed by any connected browser. Screens show battery life, data usage, wireless security settings, MAC address filtering, SMS messaging screens, and many other parameters.



Operation requires no training and can be operated by anyone. Since the case lid can be shut for full operation, the MCD-4800 may be placed in wet and dirty locations without issue.

MCD-4800 "The Football" Specifications

BANDWIDTH & NETWORK (Inmarsat BGAN Network)

Connection time (from a cold start)	Average 1 to 1.5 minutes
Download/upload Internet speeds	Class 2 BGAN (Up to 464 Kbps down x 448 Kbps up)
Wi-Fi	802.11b - Up to 100-meter Wi-Fi range (328 feet)
DHCP	Default setting for connecting up to 11 devices
External ports	Ethernet RJ-45, Phone RJ-11, Power/Charge Port
Public (Static) IP address	Optional
Wireless security	WEP 64 & 128-bit, MAC Filtering (whitelist)
Streaming services (1:1 CIR)	32Kbps, 64Kbps, 128Kbps
ISDN	ISDN Data at 64Kbps. Needs +45° look angle
FAX	3.1 kHz audio RJ-11 internal port
Web interface	For all device types including smartphones
VPN	Available with BGAN providers

SYSTEM CHARACTERISTICS

Case colors available	Black, silver, orange, yellow, desert tan, green
Exterior dimensions	17"L x 13.75"W x 6.75"H (432 x 349 x 171 mm)
Weight	25.3 lbs. (11.46 kg)
Internal battery life	Up to 5 hours of normal use
Recharge time	About 4 hours from fully discharged
Humidity	95% RH at +40°C
Operating temperatures	-25° C to +70° C (-13° F to 158° F)
Rain/Water/Dust ingress	IP66 when case is closed (powerful water jets)
Wind	If case is secure, it is not affected by wind
Ice	20mm of ice buildup before non-operation