

A Portable Satellite Wi-Fi Internet Hotspot

# A Case-Based Mobile Satellite Internet System

Go where cell access is not available. The Toughsat Flyaway mobile satellite system is easily transported and deployed by one person for highspeed connectivity using Commercial Grade iDirect from any location. With an integrated wireless access point, this satellite solution can become a multi-user hotspot in minutes. And with Dual Matrix service, you can choose from one of two satellites with a touch of a button (North America only).

Our Flyaway bracketing allows the Toughsat to be easily mounted on the ground, or on top of any vehicle roof rack, even rental vehicles. With the largest case length under 62", the Toughsat flyaway can easily fit into most SUV or other vehicle cargo areas. Power requirements are minimal and can be supplied by a mini-inverter from a vehicle power port, or from a portable generator.

Our VoIP phone service is optimized for satellite communication and many are often unaware they are speaking over a satellite link. At \$49.95 a month which includes 1000 free minutes, phone service is viable at any location. The Toughsat Flyaway Case - Portable Cost Effective Communications

# **Toughsat Flyaway Features:**

- One Operator Simplicity No Certification Required
- Single Source Provider for Equipment, Service and Support
- Ground Mounting and Roof Rack Mounting (Fly-and-Drive)
- · Comercial Grade iDirect Service Global Network
- Creates Wi-Fi hotspot in 3.5 minutes automatically
- Dual Matrix Service Two satellites for redundancy
- Ideal for VoIP phone service Very low latency
- Shippable Under UPS-FedEx-DHL limits (.98m system)
- Low power usage 90 watts average (150 watts max draw)
- Works in extreme environments. Hot-Cold-Rain-Snow
- Manufactured and supported by Ground Control
- Available in .98 meter or 1.2 meter dish sizes
- 24-7 U.S based support & nationwide field technicians

GroundControl.com





# **MOBILE FLYAWAY HOTSPOT**

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### **GENERAL FEATURES**

- + Dish peaking accuracy is within 0.1 degrees with near zero play.
- satellite is 3.5 minutes.
- + Establishes a self-contained local

- + 6 watt transmitter with 8 Watt optional.

- + Computer control is not required.
- + Autostow safety features if rig is moved or dish goes off signal.

## Wireless 1RU ACU (Dish Controller)

- + Integrated wireless 4 port router.

- dish parameters and firmware updates.
- + Manual overrides for dish pointing, GPS,
- + Networking Overrides for IP Address, Subnet Gateway address, DNS

# **Diagnostic & Updating**

- + Lifetime free firmware upgrading active Ground Control account.
- System provides accurate technical diagnostics without dispatching a
- **Ground Control for performance** tuning and troubleshooting.
- ← System provides historical log of events for accurate diagnostics

#### MAIN CASE Specifications

Toughsat (Same for both .98 and 1.2 systems)	. Compatible with Toughsat XP or SP
External Dimensions	.61.25" x 21.75" x 16" (155.6 x 55.24 x 40.64 cm)
Weight .98 dish (loaded)	.149 lbs (67.59 kg) Under shipping weight limits
Weight 1.2 dish (loaded)	.160 lbs (72,57 kg)

#### **DISH & BAG Specifications**

Reflector Types	0.98 or 1.2 square meter ellective area
External Dimensions .98 Meter Dish	39" x 4" depth (99.06 x 10.16 cm)
External Dimensions 1.2 Meter Dish	48" x 5" depth (122 x 12.7 cm)
Weight (both systems)	98m- 26 lbs (11.79 kg), 1.2m 35 lbs (15.88 kg)

#### **RACKMOUNT CASE (6U)**

external Differisions (same for both .96 and 1.2)	.21.73
Weight	.33 lbs (14.97 kg)
Components	Dish Controller, iDirect Router, Power Conditioner
Cable Run	.25' (7.6 Meters) watertight. 50' and 100' runs available

### **BRACKETING & DOLLY BAG**

External Dimensions	
Other Components	Hardware and tools
DISH ROTATION	TOWN HAT THE
Azimuth	410° Toughsat TS2 ACU (Antenna Control Un
Elevation	165°
Polarization	+-80° One button operation with Dual Matrix Service for the ultimate in redundant
RF INTERFACE	Service for the ultimate in redundant satellite communications.

#### RF INTERFACE

rransmit Power	0	walls	DUC	
Receive Frequency	R	lange !	950-1450	mhz

#### **ENVIRONMENT**

Max Operational Temperature (at 100% humidity)Operational -20° F to 140° F (-28° C to 60°	(L)
Max Survival Temperature (at 100% humidity)60° F to 160° F (-51° C to 71° C)	

#### POWER REQUIREMENTS

Dish Controller & Dish Motors (Via 120 VAC)	. 15 watts (can be turned of after pointing)
iDirect Modem (via AC120V to DC 24V @ 5 Amn)	75 watts





SATELLITE NETWORK - IDIRECT (Flyaway m	iay be used with any ku-Band provider	& Satellite router)
Satellite Router (optional0	iDirect Evolution X5 Series Router	
Max Download	Varies. Dependent on location	
Max Upload	Varies. Dependent on location	
Public (Static) IP Address	Included	April /
DHCP	Yes. Wireless or 4 port Ethernet	
NAT	Supported by included router	
Wireless Security	WPA (TKIP) WPA2 (AES) + WEP 64 a	and 128bit
Firewall	Supported by included router	
Port Mapping & Port Triggers	Supported by included router	
QoS, ToS, MAC Address Clone, RIP v1 RIP v2	Supported by included router	△ CAUTHON
Networkable clients machines	Unlimited	5 · 6 6 = 5
Wireless	Cisco Linksys wireless router "G"	