

Toughsat XP Flyaway Case - Broadband Anywhere



The Flyaway Case from Ground Control Keeping Communications On-The-Move

The Flyaway .98 Meter Ku-Band Toughsat satellite system acts as both a ground mounting platform and a Fly-And-Drive roof rack vehicle mount. This four piece solution is easily assembled by one person in about 15 minutes. The four shippable items are (1) the Toughsat (2) the .98 meter dish (3) the rackmount case for electronics... and (4) the ground & Fly-And-Drive bracketing. All required tools and hardware is provided in a convenient pouch.



Protected Electronics

The rolling 6U rackmount case holds the iDirect satellite router, the Toughsat controller with an integrated Cisco Linksys 4 port wireless "G" access point, and a AC power conditioner for keeping electronics safe from variable power. The 50' of cable run allows the electronics to be located at distance from the dish.



Fly-And-Drive

Ship a system anywhere, mount it on anything! The flexible stabilization system is designed mount on most any vehicle roof rack, even a rental vehicle. The Toughsat was designed for extreme weather, and can easily operate in severe rains or winds. Electronics are located inside of the vehicle and the cable run is ran through a slightly open window. The Toughsat will acquire satellite in about 3.5 minutes from a stowed position, and establish a wireless network.



Fits In Most SUV Storage Areas

The largest (and heaviest) of the four cases is 61.3" inches long and is under the 150 lbs weight limit of UPS and FedEx standard shipping. With the included dolly, the case is easily moved by one person.

TOUGHSAT XP FEATURES

- One-button operation
- Requires little or no training to operate.
- Dish peaking accuracy is within 0.1 degrees with near zero play.
- Typical seek time to find and lock on satellite is 3.5 minutes.
- Establishes a self-contained local area network with one button.
- Establishes a wireless access point and wiring to computers is optional.
- System is not affected by magnetic distortions to lock on any satellite.
- Operates globally in both hemispheres.
- 4 watt transmitter with an optional 6 watt upgrade.
- Can find any linear polarized KU Band satellite.
- Modular design - components easily replaced if problems occur.
- Operational in wind speeds up to 75MPH.
- Operational in temperatures of -20 to 140 degrees at 100% humidity.
- No software to install.
- Computer not required
- Remote administration via any web browser.
- Autostow safety features if RV is moved or goes off signal.

Wireless 1U Controller

- The front of the controller has several buttons for "search, stow and stop"
- Built-in wireless 4 port router.
- No fan required - Operates silent.
- Web accessible interface screen from any connected computer.
- Is able to locate and lock on any satellite independently of satellite gateway/modem.
- Remote panel extension allows full operation from vehicle dashboard or other desirable location.
- Intuitive Interface screens allow adjustments and overrides of many system parameters.
- System can be customized to locate any visible satellite using longitude location only.
- Override options for GPS, Autostow, Auto firmware updating.
- Networking Overrides for IP Address, Subnet Gateway address, DNS.

Diagnostic & Updating

- Lifetime free firmware upgrading with easy one-button updating.
- System provides accurate technical diagnostics without dispatching a technician to rig site.
- Remote access into system from Ground Control for performance tuning and troubleshooting.
- System provides historical log of events for accurate diagnostics and quick correction.

TOUGHSAT XP

FLYAWAY CASE



Ground Mounting - Vehicle Mounting - Flexibility

The TOUGHSAT Case-Based Flyaway

Little or no training is necessary to operate the system. Once the power is on, simply press the Find Satellite button on the controller and the dish will deploy automatically, lock on the satellite and create a high-speed wireless "G" network in about 3.5 minutes. It's that simple!

Toughsat XP Flyaway Specifications

MAIN CASE Specifications (Toughsat)

External Dimensions	61.25" x 21.75" x 16" (155.6 x 55.24 x 40.64 cm)
Weight (loaded) ..	149 lbs (67.59 kg) Under shipping weight limits!

DISH & BAG Specifications

Reflector Type	0.98 square meter effective area
External Dimensions ..	39" x 4" depth (99.06 x 10.16 cm)
Weight	24 lbs (10.89 kg)

RACKMOUNT CASE (6U)

External Dimensions	21.75" x 24.75" x 14 (55.24 x 62.86 x 35.56 cm)
Weight	33 lbs (14.97 kg)
Components	Dish Controller, iDirect Router, Power Conditioner
Cable Run	50' (15.3 Meters) Waterproof quick disconnects

BRACKETING & DOLLY BAG

External Dimensions	21.75" x 24.75" x 14 (55.24 x 62.86 x 35.56 cm)
Weight	24 lbs (10.89 kg)
Other Components	Hardware and tools

DISH ROTATION

Azimuth	410°
Elevation	165°
Polarization	+80°

RF INTERFACE

Transmit Power	4 or 6 watts (depending on model)
Receive Frequency	Range 950-1450 mhz

ENVIRONMENT

Max Operational Temperature (at 100% humidity)	Operational -20° F to 140° F (-28° C to 60° C)
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 off after pointing)
iDirect Modem (via AC120V to DC 24V @ 5 Amp).....	75 watts



SATELLITE NETWORK - iDirect (Flyaway may be used with any Ku Band provider & satellite router)

Satellite Router (optional).....	iDirect iNfiniti 3100 Series Router
Max Download.....	Up to 3000 Kbps
Max Upload.....	Up to 1000 Kbps (2000 Kbps for video streaming)
Public (Static) IP Address.....	Included
DHCP.....	Yes. Wireless or 4 port Ethernet
NAT.....	Supported by included router
Port Mapping.....	Supported by included router
Networkable clients machines.....	Unlimited
Wireless.....	Cisco Linksys wireless router "G"



www.groundcontrol.com

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