

TOUGHSAT XP

MOBILE SATELLITE INTERNET



Simple. Rugged. Reliable. Quick Operation.

Designed for rugged reliability in the most challenging of environments. Quick one-button deployment provides high-speed Internet and phone connectivity in less than 3.5 minutes.

Toughsat XP Features:

- Built for extreme environments
- Superior IP-66 environmental ratings
- Operates globally in both hemispheres
- No software to install
- 6 watt transmitter with 8 watt optional
- Typical seek time to find and lock on satellite is 3.5 minutes
- Dish peaking accuracy is within 0.1 degrees with near zero play

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NETWORK (iDirect Services)

DHCP --- Yes. Wireless and 4 port Ethernet
Wireless Security --- WPA (TKIP) WPA2 (AES) + WEP 64 and 128bit
NAT --- Supported by XP Controller integrated router
Firewall --- Supported by XP Controller integrated router
Port Mapping & Port Triggers --- Supported by XP Controller integrated router
QoS, ToS, MAC Address Clone, RIP v1 RIP v2 --- Supported by XP Controller integrated router
Networkable client machines --- Unlimited
Wi-Fi --- Cisco Linksys 802.11 "G" wireless router
Download Speed --- Depends on iDirect Service Purchased
Upload Speed --- Depends on iDirect Service Purchased
Public IP Address --- Can be included with service

SATELLITE DISH

Reflector Types --- 0.98 or 1.2 square meter effective area
Mount Geometry --- 3 Axis motor drive (elevation, azimuth & skew)
Deployment Sensors --- GPS & Tilt Sensor +/- 0.1°

MAXIMUM MOUNT ROTATION

Azimuth --- 410°
Elevation --- 165°
Polarization --- ±95°

RF INTERFACE

Transmit Power --- 6 watts BUC Transmitter (8 watt optional)
Frequency (Ku-Band) --- 10.95-12.75 GHz Receive / 13.75-14.50 GHz Send

DIMENSIONS OF DISH

Stowed Dish Dimensions --- .98 M 59" L x 39" W x 12" H (150 x 74 x 30.5 cm)
Stowed Dish Dimensions --- 1.2 M 67.5" L x 48.3" W x 12" H (172 x 123 x 30.5 cm)
Mounting Plate (Both .98 & 1.2 meter) --- 22" X 57" (56 x 145 cm)
Base Plate (attached to mounting plate) --- 14" x 16" (35.6 x 40.7 cm)
Deployed Max Height --- 1.2m - 68" height / .98m - 52" height (132 cm)
Weight --- 1.2m - 133 lbs (60.4 kg) / .98m - 125 lbs (56.7 kg)
Boom Radius Sweep 1.2 meter / .98 meter --- 61" / 53" from center 5" min. ground clearance

ENVIRONMENT

Wind Deployed --- 1.2m - 50mph (80 kph) / .98m -75 mph (120kph)
Wind Stowed --- 140 mph (225 kph)
Max Operational Temperature (at 100% humidity) --- Operational -20° to 140°F (-28°C to 60°C)
Max Survival Temperature (at 100% humidity) --- -60°F to 160°F (-51°C to 71°C)
Ingress (Environmental Protection) --- IP66 (can withstand powerful water jets)

POWER REQUIREMENTS

Dish Controller & Dish Motors (Via 120 VAC) --- 15 watts @ 120V (Max 144 Watt power-on surge)
iDirect Modem (via AC 120V to DC 24V @ 5 Amp) --- 75 watts @ 120V (Max 240 Watt power-on surge)



Wireless Hot-Spot with Dual Matrix

The Toughsat TS2 ACU (Antenna Control Unit) has an integrated router and wireless access point. Any wireless capable device within 100' from the vehicle may connect.