



TOUGHSAT TS2 DUAL MATRIX

Antenna Control Unit (ACU) Specifications



The Toughsat TS2 ACU - For the Toughsat XP and SP Mobile Systems

- ◆ One button operation - Little or no training necessary.
- ◆ Dish deployment & acquisition time under 3.5 minutes.
- ◆ Dual Matrix - Dual Satellite infrastructure for redundancy.
- ◆ DVB-S and DVB-S2 signal acquisition for any KU-Band.
- ◆ Ideal for applications that require high-speed connectivity.
- ◆ Integrated full function wireless 4-port router.
- ◆ Silent Operation - ACU has no noisy fan.
- ◆ Web Interface. Full control over operation and parameters.
- ◆ Powerful internal diagnostics for accurate troubleshooting.
- ◆ Free Lifetime one-button firmware upgrading with active account.

FRONT PANEL FEATURES

One-button Deploy, Stow Dish, All Stop
Dual Matrix Sat 1 and Sat 2 buttons
Power Switch - Now only on front panel
Backlit display shows real time dish state
LED's show active WLAN & connected LAN devices

INTERNAL

DVB-S and DVB-S2 signal acquisition
Dual Matrix - Redundant dual satellite infrastructure service
Platform independent - Can acquire any Ku-Band satellite
Reference and target routines for hard to find satellites
Integrated SD memory card for manuals and video tutorials

WEB-ACCESSIBLE INTERFACE

All functions available from any connected browser
Intuitive screen for parameter adjustments and overrides
Full dish status, signal strength, connectivity state, etc
Manual dish controls of all axis, elevation, azimuth, skew
Controls to locate any visible satellite using longitude
GPS display, GPS override controls
Locate any visible Ku-Band satellite
No software to install - Fully controlled from any browser

INTEGRATED 4 PORT Wi-Fi ROUTER

Cisco Linksys 4-port wireless router
Automatically creates Wi-Fi access point on deploy
Full browser control over all router functions.
Wireless Security - TKIP (WPA) and AES (WPA2) 128 bit
SPI Firewall, VPN passthrough, MAC address filtering
NAT, DMZ, Port Forwarding, Port Triggers
DHCP server, DHCP client, QoS, Tos/DiffServ, UPnP
MAC Address clone, RIP v1, RIP v2
Optional half-mile wireless upgrade (\$299)

AUTOSTOW FEATURES

GPS Autostow. Move more than 5 feet starts autostow
Signal Loss Autostow. Dish off-signal for 10 seconds
Optional Powered Autostow UPS if power removed

DIAGNOSTICS & UPDATING

FREE lifetime firmware one-button updating with account
Powerful diagnostics tools including historic log files
Remote access by Ground Control support for tuning

SATELLITE ROUTER COMPATIBILITY

iDirect Evolution X5 Series
iDirect INFINITI 3000, 5000, 7000 Series
Tachyon CI-1300
Tachyon Ruggedized RMG
Compatible with most satellite routers

BACK PANEL CONNECTORS

6-pin circular mount controller with GPS
Rx In using standard type F connector
Rx Out passthrough type F connector
RJ-45 (Ethernet) Mount Ethernet
RJ-45 (Ethernet) Router Internet In
RJ-45 (4 - Ethernet) 4 port LAN
2 - RJ-11 ports for UPS and Modem comm links
DV9 Serial Port - diagnostics
SD Memory cardslot - For diagnostics portability

ENVIRONMENTAL

Operation -4° to 122° F (-20° to 50° C)
Storage -40° to 140° F (-40° to 60° C)

ELECTRICAL (Controller supplies power to dish)

Power Input 100 to 240 VAC
Extremely low power draw at 15 watts average
15 watts includes Azimuth, Elevation, Pol movements
40 watts momentary peak power

CONTROLLER DIMENSIONS

1RU Rackmount - Small form factor 12" depth
Optional non-rackmount version
19" w x 12" d x 1.75" h. Weight - 8 lbs (3.63 kg)
Operates silent (as do iDirect modems)

WARRANTY

Standard 1 year parts & on-site labor
Extended warranties available

CERTIFICATION

Complies with FCC Part 15 Class B
CE (European) Approval

24 x 7 U.S. BASED SUPPORT

Ground Control is there when you need help of any kind