

TOUGHSAT

CONTROLLER SPECIFICATIONS



The Toughsat XP and SP Controller

- ◆ One button operation - Little or no training necessary.
- ◆ Dish deployment & acquisition time under 3.5 minutes.
- ◆ Modem independent. Controller acquires any satellite.
- ◆ 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 - Controller 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 Power
 One-button Find Satellite
 One-button Stow Dish
 One-button All Stop
 LED's show dish state, moving, stowed, online, etc
 LED's show active WLAN & connected LAN devices

INTERNAL

DVB-S and DVB-S2 signal acquisition
 Compatible with all Toughsat SP's and XP's - all dish sizes
 Can acquire any Ku-Band satellite with longitude only

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

INTEGRATED WIRELESS ROUTER

Cisco Linksys 4-port wireless router (easily bypassed)
 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/DiffSerf, 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 for quick troubleshooting online/offline
 Remote access by Ground Control support for tuning

MODEM COMPATIBILITY

iDirect iNFINITI 3000 Series
 iDirect iNFINITI 5000 Series
 iDirect iNFINITI 7000 Series
 iDirect Evolution X5 Series
 Tachyon CI-1300
 Tachyon Ruggedized RMG
 Compatible with generic modems

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 interface
 RJ-45 (Ethernet) Router
 RJ-45 (Ethernet) 4 port LAN
 RJ-11 Optional remote keypad
 DV9 Serial Port - diagnostics

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
 12"d x 1.75"h x 19"w. Weight - 8 lbs (3.63 kg)
 Operates silent (as do iDirect satellite modems)

WARRANTY

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

CERTIFICATION

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