AQYR
Tactical SATCOM Solutions

ThinPACK® AutoAQYR™ TERMINAL

Ka-Band Terminal from AQYR & ThinKom

Next Generation Ultra-Portable Micro-VSAT AutoAQYR Terminal Provides Commercial and Government Users Broadband Ka-Band Connectivity

HIGH-PERFORMANCE, COST-EFFECTIVE INTERNET ACCESS ON THE GO

AQYR's ThinPACK® AutoAQYR™ terminal features the unique AutoAQYR software, which delivers lightning fast acquisition and packs into a single rugged case. Known for our reliable manpackable terminals used by the elite military Special Operation Forces, the ThinPACK AutoAQYR terminal is the next-generation of rapidly deployable satellite communication terminals. The ThinPACK AutoAQYR terminal is comprised of a lightweight flat panel antenna. The broadband terminal supports worldwide commercial and government Ka-Band networks with compact integrated RF components. ThinKom's ultra-portable, antenna provides high throughput (up to 20 Mbps Downlink at 13 dB/K G/T and 16 Mbps Uplink at 49 dBW EIRP) and highly efficient use of transponder bandwidth (1-2 bits/Hz). There is no assembly required and the antenna is fast and easy to align and stabilize. The broadband terminal supports worldwide commercial and government Ka-Band network.

EASY INSTALLATION AND OPERATION

Special Operation Forces, military communicators, field reporters, remote medical and peace workers, and emergency responders benefit from high-speed internet with the convenience of near instant connectivity even in locations where no other communication infrastructure is available. The form factor is ruggedized to support operation in harsh conditions and supports multiple configuration options to suit user needs. The ThinPACK AutoAQYR terminal is designed to be modem and satellite service agnostic. The most popular modems have been integrated with the ThinPACK AutoAQYR terminal.

TERMINAL AT-A-GLANCE

- Simple Rapid Deployment, No Tools Required
- AutoAQYR™ Acquisition Algorithm
- Packs in a Single Case, Airline Checkable
- Minimal User Training Required
- Simple, Integrated, Intuitive User Interface
- User Configurable Satellite Settings
- Remote Graphical User Interface (GUI) Available
- Automatic Modem Profile Integration With Positioner
- Modem Agnostic

REMOTE USER INTERFACE

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Specifications

GENERAL INFORMATION (ANTENNA ONLY)

Transmit Band	28.1-31.0 GHz
Receive Band	18.7-21.2 GHz
G/T	13 dB/K (20.2 GHz)
TX Gain	39.5 dBi (30 – 31 GHz) / 38.5 dBi (29 – 30 GHz)
EIRP	46 dBW (30 GHz, 5W BUC)
TX Power Spectral Density	32 dBW/40 KHz (per 47 CFR 25.138)
BUC/Antenna/ LNB	N & F Connector (male)
Geo-Plane Beamwidth (Tx)	1.7° Az x 2.2° El
Geo-Plane Patterns	First Sidelobe -27 dB (typical)
Polarization	Switchable Circular (Orthogonal-Pol)
Axial Ratio	< 2.0 dB typical
Tx/Rx Isolation	> 80 dB
Panel Size	16.8" x 11.5" x 2.8"
Weight:	< 9.4 lbs.

PERFORMANCE

Data Rates - Receive	up to 20 Mbps
Data Rates - Transmit	up to 16 Mbps

GENERAL INFORMATION (POSITIONER ONLY)

Acquire Time	Start to signal lock in less than 3 minutes
Size	Positioner = 8.75" L x 7.0" W x 10" H (22.2cm L x 17.8cm W x 25.4cm H)
Weight	Full System = 32 lbs. (14.5 kg) Packed In case = <67lbs (<30.4 Kg)
Power	AC - 110 / 240V DC - 12 / 30V (<40Watts)
Scan Range	Azimuth ± 30° (60°total) Elevation 0° to 90° (90° total)
I/O Ports	RJ-45 - remote interface RF (TNC) connectors - Tx and Rx Power input
Base	Low profile composite tripod Legs extend for greater stability

ENVIRONMENTAL

Wind Operational	30mph gusting to 45mph without ballast
TEMPERATURE:	
Operational	-22° to 140° F (-30° to +60°C)
Storage	-40° to 160°F (-40° to 71°C)
Altitude	4572 m
Ingress Protection	IP65

ADVANTAGES AND BENEFITS
(EQUIVALENT TO 60CM PARABOLIC DISH)

- Assembly is fast and easy to align and stabilize
- 50% less sensitive to pointing/alignment errors
- 65% smaller aperture area
- 80% less susceptible to wind-loading
- 50% lower profile in deployed condition
- Integrated transmitter/receiver (compact, no cables)
- Worldwide commercial and military Ka-Band capable
- Polarization diverse (switchable LHCP/RHCP, orthogonal Tx/Rx)
- Supports 3x higher return data rates