

KA-PRT

Portable Receive Terminal (PRT)



KA-PRT FEATURES:

- Portable, Airline carry-on
- Ops Proven, Battle Tested
- Deploy, Power, Acquire
- Minimal User Training Required
- Modem Agnostic, Network Ready
- Simple, Intuitive User Interface
- Receives DVB-S/S2
- Commercial or Military Configurable
- Airline Checkable

The AQYR KA-Portable Receive Terminal (PRT) is a highly portable Ka-Band receive terminal that revolutionizes the way in-the-field communicators operate. It brings operations center information to the teams or to the individuals, in austere location or where they need it most.

The ultra-lightweight, compact design delivers much needed capabilities to support full-spectrum operations. The system operates over military Ka-Band, or can be configured to operate over commercial Ka-band satellites, providing both low cost and wide bandwidth the world over. The rapid set up, short signal acquisition time, and simple user interface enables un-trained communicators to get the information they need most, immediately.

Built combat tough, the portable receive terminal is modular and scalable making it adaptable for use into most any network operations specific to any situation, as well as ongoing operations in far flung territories. The KA-PRT has been in use by U.S. DOD since 2007.

The KA-PRT by AQYR is the new force multiplier. It contributes to team modernization, helps improve situational awareness and survivability by delivering unparalleled bandwidth for Full Motion Video-Intelligence, Geospatial Information, Mapping, Weather and a variety of other large files required for successful team or mission support.



KA-PRT Specifications

KA-Portable Receive Terminal (PRT) contains:



Portable Receive Terminal (PRT) & Accessory Bag



Size:	19" Length x 11" Width x 8" Height (Stowed)
Weight:	31 lbs (14.06 kg) Suitcase Portable Receive Suite tactical carry weight
Environmental Testing:	to MIL-STD-810F
Operating	-22°F to 140°F (-30°C to 60°C)
Storage	-40°F to 160°F (-40°C to 71°C)
Drop	26 drops from 48 in (1.22 m), (not in transit case)
Vibration	Method 514.5C-17, Procedure II
Loose Cargo	Method 514.5, Procedure II
Sand & Dust	Method 510.4, Procedure I & II
Water	Method 506.4, Procedure I
Humidity	95% RH, temp cycle 68°F to 140°F (20°C to 60°C)
Altitude	15,000 ft (4572 m)
Solar	120°F (49°C) + solar loading
Operation:	
G/T	12.3 dBK
Capability	DVB-S (ETS 300421) & DVB-S2 (EN 302 307) demodulator and FEC decoder compliant <ul style="list-style-type: none"> • Fully compliant DVB/MPE & PES, IP, MPEG-2 • Unicast, Multicast, Broadcast Routing and Bridging
Performance	DBV-S2: QPSK & 8PSK modulations, 3 - 30Mbauds <ul style="list-style-type: none"> • DVB-S: QPSK modulation, 1 - 45 Msps (tested up to 51.8 Mbauds) • Satellite interface up to 75 Mbits/s (8PSK, 5/6), 80 Mbits/s (8PSK, 9/10) • Up to 40 Mbits/s IP throughput sustained
LNB Gain	55 dB
LNB Noise Figure	1.3 dBNF
LNB Noise Temp	110.3 K
Antenna Gain	36.2 dBi
Antenna Noise Temp	130.6 K
Setup Time	Less than 2 minutes (typical)
GPS/Boot Time	Less than 3 minutes (typical)
Acquisition Time	Less than 2 minutes (typical)
Power:	DC Input 24 VDC, AC input 100 - 240 VAC 50/60 Hz
Options:	Ka-Band 60 cm Dish Accessory Kitt, provides a 275% increase in signal gain approximately 4.5dB.

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