The MAQA Terminal provides today's warfighter with a ruggedized, highly mobile, quad-band SATCOM terminal that supports operations with the Wideband Global Satcom (WGS) constellation, legacy DoD satellites, and commercial satellites. Evolved from the field-proven 4.9m LAMDA AS-4429D/TSC, and the 2.5m LMST AN/USC-65 products, the new 3.8m MAQA Terminal is the next generation product designed to operate and support the warfighter's tactical environment. Combined with best-in-class RF electronics, the MAQA Terminal provides superior transportability, simultaneous X/Ka-band capability, and setup time of less than one hour without tools.

MAQA's 3.8m carbon fiber antenna assembly is straightforward, with label icons on individual components and transport cases. Band changes can be accomplished with a simple swap of the feed via quick disconnects in less than five minutes.

The MAQA Terminal weighs less than 2,700 pounds and is capable of operating in wind speeds up to 60 mph. All equipment transport cases meet the two-man lift requirements (< 174 lbs.) and will fit through a 32-inch doorway. Satellite acquisition is enhanced by a motorized ±90 degree azimuth turntable range and 5–90 degree elevation range.

The strong, yet lightweight, antenna structure supports mounting for two BUC/HPAs. MAQA Terminal's rugged outdoor RF equipment utilizes certified electronics already in use and currently in military inventory systems to minimize user's procurement and life-cycle support costs. MAQA's design uses many interchangeable parts, thereby minimizing spares count. The MAQA terminals are currently in production and ready now to accept orders.
SYSTEM FEATURES

- Center-fed, 3.8m (12.5-foot) aperture
- <2,700 lbs. total weight with hard cases, 74”L x 84”W x 76”H, stacked case volume
- <1,700 lbs total for the terminal system without cases
- Quad-band coverage with only 3 feeds: C, Ku, X/Ka
- Sidelobes IAW IESS 603, CCIR 580-2, and MIL-STD-188/164A (DISA, ARSTRAT)
- Finish: Green (-101) or darksand stone (-102); CARC available on special order

Power-handling capability:
- 750 W (C-band)
- 750 W (Ku-band)
- 1000 W (X-band)
- 300 W (Ka-band)

Standard RF equipment delivered with terminal (at P1 dB):
- 200 W (Ku-band)
- 100 W (X-band)
- 50 W (Ka-band)

Size: Ground footprint 8’ x 8’, swept volume 14’ diameter x 14’ tall.

Power: 1.5 kW AC typical consumption (band dependent)

Tracking loss:<1/2 dB (no wind C, X, Ku)
0.8 dB (no wind Ka)<2 dB (30/45 mph wind, Ku, Ka), < 2 dB (45/60 mph C and X-band)

Setup time:<60 minutes with two men

Tear-down time:<60 minutes with two men

Transport land: Flatbed truck or single HMMWV with optional pallet carrier (M1113, M1097, M35, and M939 vehicles)

Air transport: 463L pallet or ISU-90 container or two half 463L pallets (mission specific)

OPTIONS:
- Alternate (higher power) RF electronics
- Snow shield
- Co-Pol Capability
- Dehydrator
- Alternate frequency band feeds (InSat, S, DBS, commercial Ka, Q)
- Building rooftop mounts
- Modems
- Baseband equipment
- 100 W (C-band)

ENVIRONMENTAL

- Temperature: Nonoperating: –40 °C to 60 °C; operating: –30 °C to 55 °C
- Humidity: 100% (–30 °C to 40 °C)
- Altitude: 40,000 ft (nonoperating); 7,000 ft (operating)
- Salt spray: No rust after 48 hours, 5% condensation
- Ice/snow: 1/2-inch ice or snow loads of 20 lbs/ft²
- Wind: Operating: 25 mph without anchors, 60 mph with anchors in any position, 90 mph stowed
- Shock/vibration: Transport via tactical vehicles on primary/secondary roads and improved cross-country terrain

Air transport: MIL-STD-209
Shipboard transport: Weatherproof transport cases designed for outdoor exposure
Safety: Designed IAW MIL-STD-1472

PARAMETER  C-BAND  KU-BAND  X/KA SIMULTANEOUS

Rx Frequency Band  3.4–4.2 GHz  10.95–12.75 GHz  7.25–7.75 GHz  20.2–21.2 GHz
Tx Frequency Band  5.850–6.425 GHz  13.75–14.5 GHz  7.9–8.4 GHz  30.0–31.0 GHz
Polarization  Circular: LHCP/RHCP  Linear: Motorized V/H  Rx: LHCP/Tx: RHCP  Rx: RHCP/Tx: LHCP

Tx Axial Ratio  0.75 dB  -  1.0 dB  1.0 dB
Tx Cross-Polarization  Intelsat IESS 207  Intelsat IESS 208  MIL-STD-188/164a  MIL-STD-188/164a
Linear EIRP (at midband)  63 dBW  71 dBW  63 dBW  71 dBW
G/T min. @ 25° El w/ Rx OOB Filtering  22.5 dB/K  31 dB/K  24.8 dB/K  31.6 dB/K
Compliance  FCC, Intelsat  FCC, Intelsat  DISA/ARSTRAT  DISA/ARSTRAT
Feed Transport  Rugged Hard Case  Rugged Hard Case  Rugged Hard Case  Rugged Hard Case

Specifications are subject to change without notice.

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Government Communications Systems
P.O. Box 37
Melbourne, FL USA 32902-0037
1-800-442-7747 (1-800-4HARRIS)