

Tactical Manpack AESA Terminal

High-Performance, Low SWaP-C. Mission-Ready.

The ARA-MPKU-9/12 is a compact, lightweight, and highly capable Manpack AESA terminal designed for the modern tactical environment. Engineered for flexibility and resilience, this system enables high-throughput communications across LEO, MEO, and GEO constellations — all within an exceptionally small SWaP-C (Size, Weight, Power, and Cost) profile.

Whether you're on the move or deployed in the field, the ARA-MPKU-9/12 ensures mission-critical connectivity without compromising mobility. Its advanced phased array technology provides rapid satellite acquisition and tracking, making it an indispensable asset for dynamic and unpredictable operational scenarios.



POWERED BY  Greener wave.

Specifications	
Frequency	Rx: 10.7 - 12.75 GHz Tx: 13.75 - 14.5 GHz
Gain MPKU-9	90° - 9 dB/K, 45° - 10 dB/K
Gain MPKU-12	990° - 12 dB/K, 45° - 7.5 dB/K
EIRP MPKU-9	90° - 42 dBW, 45° - 40.5 dBW
EIRP MPKU-12	90° - 45 dBW, 45° - 43 dBW
Polarization	Linear (H/V), Circular (R/L), Switchable
Antenna Coverage	Az: 360° El: 20°-90°
Cross-Pol Isolation	>25dB
Power	<150 Watts (Controller and Modem Dependent)
Instantaneous Bandwidth	RX: ≥250 MHz TX: ≥150 MHz
Beam Agility	≤50 μsec
Environmental Specs	Mil-Std-810 H Compliant
Weight	MPKU-9, 30 lbs: MPKU-12 45 lbs
Dimensions	MPKU-9, 21x24x4.3in: MPKU-12, 25.6x27.5x5in
Finish	Per Request

Key Features:

- **Dual-Model Offering:** Available in two configurations to meet diverse mission requirements for size and capability.
- **Multi-Orbit Tracking:** Seamlessly connects to LEO, MEO, and GEO satellites.
- **SDR Integration:** Supports Software-Defined Radios and multiple controller options for enhanced communications flexibility.
- **Tactical Advantage:** Built for field operability, with fast deployment and minimal training required.
- **Rugged and Mobile:** Designed to withstand challenging environments while maintaining high performance.

Ideal For:

- Tactical communications in contested environments
- Rapid deployment missions requiring lightweight, mobile terminals
- Field operations needing reliable, high-bandwidth satellite links