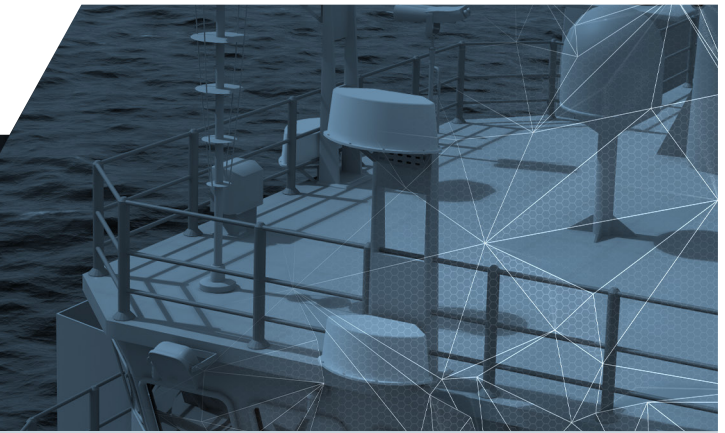
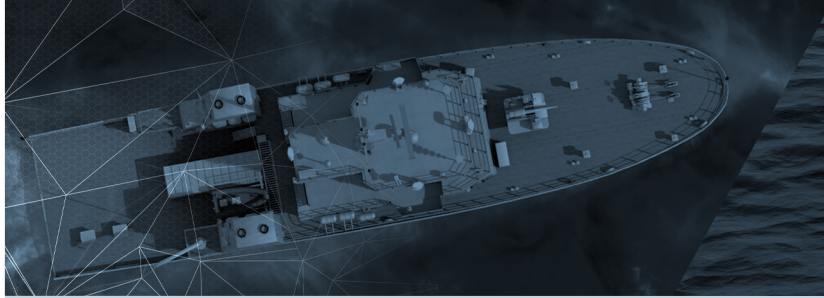


360 MULTI-SECTOR ANTENNA



The 360 Multi-Sector Antenna (MSA) enables 360° long-range command and control between the antenna array and Puma™ AE UAS for maritime applications. Commanding Officers (COs) can maintain complete control of Puma AE and payload with the 360 MSA. Additionally, it enables the bridge and combat team with mission planning, real time moving map, high resolution imagery, and contact status capability. The 360 MSA allows the vessel's CO to maintain a mission heading without constant re-direction from a diminished link with Puma AE. The system provides a robust 360-link by analyzing the downlink data quality and using a routing/switching mechanism to automatically switch between antenna patches with greater margin, thus ensuring a strong and consistent link with Puma AE.

The 360 MSA is designed specifically to provide naval operators with immediate tactical situational awareness. The system incorporates 24 high-gain, auto-selective antennas to enable continuous operation out to 20km. The 360 MSA range is equivalent if not better than the current ground control station patch directional antenna and with diversity offers reduced probability of multi-path link loss. The 360 MSA is considered a 'temp alt' for maritime vessels.



SPECIFICATIONS

SYSTEM PERFORMANCE

LINK RANGE PUMA AE 20 km nominal range to DDL-equipped Puma AE

AZIMUTH COVERAGE 360° continuous

ANTENNA BEAM WIDTH (3DB) M3/4/6: > 20° vertical

DDL OPERATING BANDS M3/4/6

PHYSICAL

WEIGHT, DEPLOYED 394 lbs (Does not include weight of cabling, laptop and shipping container)

INDIVIDUAL RADOME DIMENSIONS 39" length x 21" width x 25" height (including 9.5" high mounting bracket)

POWER

MSA ANTENNA POWER 95-265 V ac, 49-420 Hz, 130 W (nominal), 180 W (maximum) (with power supply)

VOTER LAPTOP POWER 120/240 V ac, 50 - 60 Hz

KEY FEATURES

- 360 degree coverage
- 20 km range to DDL-equipped UAS
- 24 high gain antennas for long-range UAS communications
- Maritime applications
- All Environment
- Diversity tier for improved performance in multi-path
- Easy, fixed installation
- Automated performance (to the operator it looks like a standard GCS, does not require user input, switches automatically)
- AeroVironment DDL military operating bands M3/4/6

