The ERA is a lightweight, portable antenna array kit designed to integrate seamlessly with AeroVironment's standard RF head antenna to support a diverse range of missions. The ERA add-on kit narrows the antenna beam width, extending the command and control range up to 40 kilometers (24.9 miles) or 100 percent greater controllable range over the standard RF antenna with minimal impact to its size, weight and power (SWAP) footprint.

Similar to the standard RF head antenna, the ERA is manually positioned. The included RFU switch allows users to toggle between omnidirectional and extended range antenna modes for long range operations or short range launch and recovery operations. The ERA operates within M1/2/5 or M3/4/6 bands and is compatible with all AeroVironment family of small UAS systems, including Puma™, Raven®, and Wasp®.
## KEY FEATURES

- **Lightweight, portable antenna add-on kit**
- **Extended range—monitoring, command and control up to 40 km**
- **Plug-and-play integration with existing RF head antenna**
- **Rugged design capable of withstanding winds up to 25 knots**
- **Operational with AeroVironment’s DDL™ military operating bands M1/2/5 or M3/4/6**

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## SPECIFICATIONS

### OPERATING PERFORMANCE

- **ANTENNA BEAM WIDTH (3 dB)**: 30° beam width in azimuth and elevation
- **LINK RANGE**: Up to 40 km
- **DATA RATE**: 4.5 Mbps
- **INTERFACES**: Ethernet/RS-232/RS-485

### PHYSICAL

- **SIZE**
  - Array size: 12.25 in x 12.25 in x 5 in (31.1 cm x 31.1 cm x 12.7 cm)
  - Deployed add-on kit height: 4.25–7 ft (1.3–2.2 m)
  - Base Diameter: 3.75–8.2 ft (1.1–2.5 m)

- **WEIGHT**
  - Deployed add-on kit weight: 10.8 lb (4.9 kg)
  - Note: excludes the GCS RF head, hub and system battery

- **PACK OUT DIMENSIONS**
  - (Pelican IM2950)
  - 31.3 in x 20.4 in x 12.2 in
  - (79.5 cm x 51.8 cm x 31 cm)
  - Case & add-on kit components weight: 35.3 lb (16 kg)

### POWER

- **TX POWER**: 1.5 W
- **RX SENSITIVITY**: -93 dBm
- **POWER CONSUMPTION**: 20 W (pass through, not additional)
- **OPERATING VOLTAGE**: 5.5–16 V