

REAPR[®] Enhanced SHADOW[®] TUAS



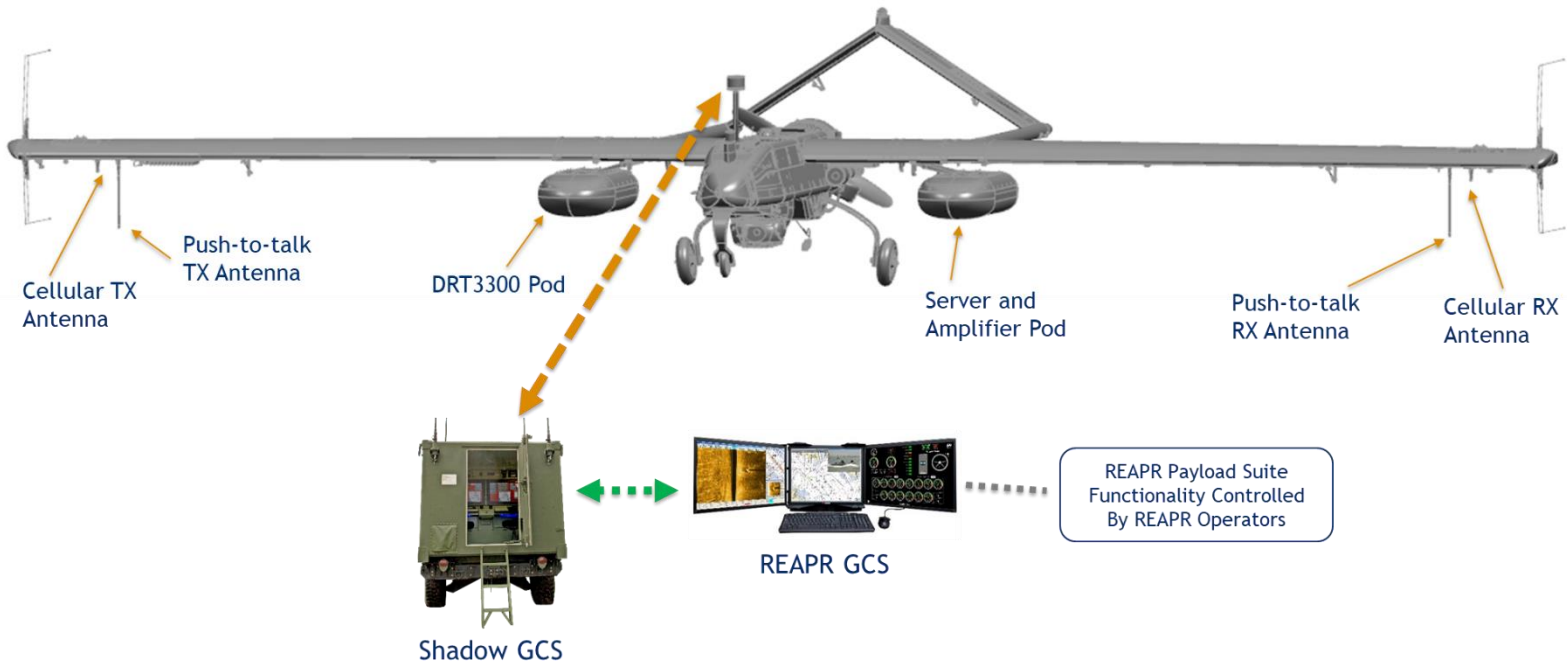
Introducing the REAPR[®] Enhanced Shadow[®] TUAS, a revolutionary Electronic Warfare (EW) capability deployed on the Textron Systems RQ-7B v2 Shadow[®] TUAS airframe.

The REAPR (Reactive Electronic Attack Portable Radio) Enhanced Shadow (RES), represents the first EW payload to operate on a widely deployed Tier/Class II TUAS, this system. It enables our warfighters to engage with full spectrum EW capabilities wherever the Shadow operates.

The revolutionary RES EW payload enables operators to **define** target signals and set missions to automatically take predetermined action when target signals are identified. The system will **scan, detect** target signals, **intercept** them, **decrypt** many GSM phones and Push-to-Talk (PTT) radios enabling operators to “**hear**” the conversations, **geo-locate** the signal, **classify** target signals and automatically **execute** predefined effects. These effects also include the capability to **disrupt/jam** or conduct various **cell phone spoofing**, and other electronic warfare capabilities. As a broadband platform able to cover a wide range of PTT radios and GSM cellular phones, the system delivers capabilities for the battlefield of today and tomorrow.

The RES platform is JICD, RaptorX, and EWPMPT compliant for compatibility with other deployed assets to meet tomorrow’s emerging battlespace demands.

INNOVATIVE EW PAYLOAD ON THE MOST RELIABLE TUAS



- **RF TRANSCEIVER OPERATING CHARACTERISTICS**
 - TX Frequencies 30 MHz - 512 MHz, 800 MHz - 3000 MHz
 - RX Frequencies 2 MHz - 8.5GHz
 - Antennas: Various Multiband Antennas
 - Modulation: Various Commercial and DOD Wave Forms
 - Power Output: Variable Onboard 8-10W
 - VSWR: 2:5:1 Typical
 - Control Mode: Remote / Networked / Standalone
- **RANGE: PTT Detect, Decrypt and Disrupt tested out to 40 mi**
- **ENCRYPTION: Able to decrypt many PTT and GSM devices**
- **ENVIRONMENTAL SPECIFICATIONS**
 - Temperature -58° F to +160° F (-50° C to +71° C)
 - Humidity 5% to 95% non-condensing
- **CERTIFICATIONS AND RATINGS**
 - FCC, IP 67 Compliant Housing
 - Shock and Vibration MIL-STD-810
 - Immersion MIL-STD-810 to 1 Meter
 - Sand/Dust/Salt Fog/Rain/Humidity MIL-STD-810
 - EMI/RFI MIL-STD-461
 - JICD 4.2 / 4.2.1 compliant
 - RaptorX compliant
 - EWPMPT compliant

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