L3HARRIS®
FAST. FORWARD.

MUMT-X – MANNED-UNMANNED TEAMING EXPANDED AIRBORNE DATA LINK SYSTEM

Providing a Complete, Real-Time and Integrated Picture in the Battlefield

The L3Harris MUMT-X airborne data link system provides unparalleled interoperability, rapid connectivity and a high-speed communications backbone that enhances operations involving manned aircraft, UAVs and soldiers on the ground. MUMT-X dramatically improves overall situational awareness and transforms sensor-to-shooter networks, enabling expanded levels of air-to-ground and air-to-air collaboration.

PRODUCT DESCRIPTION

MUMT-X is a collection of state-of-the art products and a combat-proven architecture integrated on a sophisticated aircraft that provides game-changing capabilities to pilots in the air and soldiers on the ground. The pilot has the option to display and/or transmit video and metadata from an Unmanned Aerial Vehicle (UAV), another manned aircraft, and sensor data or imagery recorded and stored on an on-board Digital Video Recorder (DVR). MUMT-X enables highly effective teaming operations between manned and unmanned aircraft and provides Full-Motion Video (FMV) to the tactical edge, improving operations involving aircraft and soldiers on the ground. MUMT-X also provides improved situational awareness to the aircraft and streaming FMV to command and control centers, enabling better tactical decisions based on real-time video intelligence.

UAV Receive eXpanded (UR-X) Kit

XUR

Air-Air-Ground eXpanded (AAG-X) Kit

COYOTE Modem

Roadrunner – “Next Gen DLCM”

KuC RFE

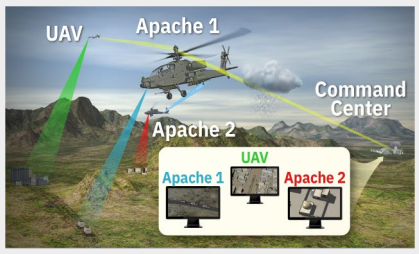
KuC Antenna

The appearance of U.S. Department of War visual information does not imply or constitute DOW endorsement.

Powerful and Flexible ISR Communications with Proven Reliability

KEY FEATURES

- Core capability: Coyote Modem or Coyote-c (coalition variant)
- Receives and distributes FMV
- Multi-band reception and Ku- or C-band transmission
- Fully integrated with cockpit displays and targeting systems
- IP-enabled for network-centric operations
- Modular design
- Secure digital communications with Type1 or AES
- Software-upgradeable in the field
- Extensive Built-In Test (BIT)
- Based on combat-proven capability employed today on U.S. Army Apache helicopters



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SPECIFICATIONS

Physical Characteristics

AAG-X KIT	WIDTH (cm)	HEIGHT (cm)	DEPTH (cm)	WEIGHT (kg)	POWER (W)
Coyote or Coyote-c	43.0	15.3	28.5	15.6	390 (max) 295 (typ)
KuC RFE	21.9	14.2	41.9	6.6	220
KuC Tx/ RxAntenna	12.7	27.2	14.0	1.6	N/A
DLCM Processor or Roadrunner	13.7	7.6	16.5	2.8	66
Total				**26.6**	**676 (max) 581 (typ)**

UR-X KIT	WIDTH (cm)	HEIGHT (cm)	DEPTH (cm)	WEIGHT (kg)	POWER (W)
XUR	46.4	69.6	N/A	31.6	158

PERFORMANCE CHARACTERISTICS

Waveforms and Data Rates

- CDL: 200 Kbps, 2 Mbps, 10 Mbps, 45 Mbps
- Tactical: 1.6, 3.2 and 6.4 Mbps
- DDL: 1.5 and 4.5 Mbps (Rx only)
- VNW2 (FSK): 50 Kbps to 5 Mbps
- Legacy ROVER 455K: 455 Kbps (Rx only)
- ROVER 466ER: 466 Kbps
- BE-CDL rev B: 512 kbps to 45 Mbps; Modes 1-15, 101-105

RF

- Ku-Band: 15.15 to 15.35 GHz, 14.40 to 14.83 GHz
- C-Band: 5.25 to 5.85 GHz, 4.40 to 4.95 GHz
- S-Band: 2.025 to 2.50 GHz
- L-Band: 1.625 to 1.85 GHz

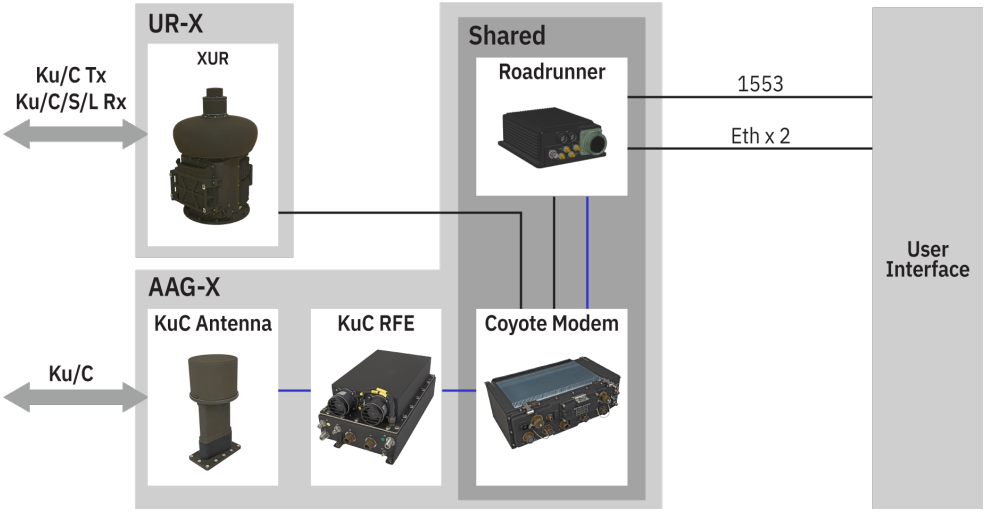
MUMT-X SYSTEM ARCHITECTURE

UAV Receive eXpanded (UR-X) Kit

- XUR - multi-band Directional Antenna, Omni Antenna, RFE

Air-Air-Ground eXpanded (AAG-X) Kit

- Coyote or Coyote-c modem
- KuC Band RFE
- KuC Band bicone antenna
- DLCM Processor or Roadrunner



MUMT-X – Manned-Unmanned Teaming eXpanded Airborne Data Link System

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