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

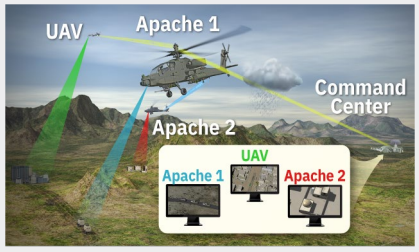
KuC Antenna

Use of U.S. DoD visual information does not imply or constitute DoD 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

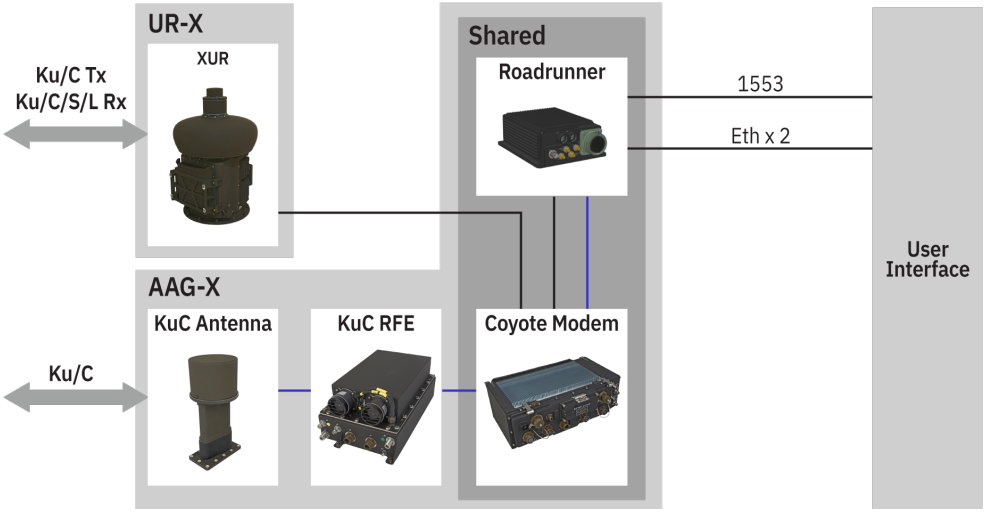
MUMT-X SYSTEM ARCHITECTURE

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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