

## UNIVERSAL GROUND DATA TERMINAL (UGDT)

### A tactical, transportable broadband CDL ground terminal

L3Harris Universal Ground Data Terminal (UGDT) is the standard ground configuration for U.S. Army UAVs. The UGDT incorporates a primary link and a secondary link for Line-of-Sight (LOS) communications, and couples the power of modularity and scalability with the rewards of parts commonality and packaging flexibility.

#### PRODUCT DESCRIPTION

L3Harris's UGDT allows warfighters with broadband data, voice and video services to connect to airborne assets using LOS communications of up to 274 Mbps. The UGDT leverages L3Harris' third-generation TCDL architecture of Common Modules (cPCI), Common Module Carriers and an extensive family of RF and antenna solutions. Using an antenna that is capable of both RF tracking and navigation tracking, the UGDT forms the most interoperable and scalable system in the military's broadband networking inventory. As part of the UGCS, our UGDT is the primary surface communications component for PMUAS and the U.S. Army's fleet of UASs. Interoperable with numerous data link products including CDLs, TCDLs and ROVER® products demonstrates its proven capability.



Provides the battlefield ISR  
situational awareness and  
network connectivity

#### KEY FEATURES

- > Architecture supports theater-wide networking
- > UGDT includes:
  - Ku-Band primary link and a UHF secondary link LOS capability
- > LOS communications:
  - STD-CDL to 274 Mbps
  - Bandwidth-efficient modes to 10 Mbps

## SPECIFICATIONS

### PHYSICAL CHARACTERISTICS

#### Local Equipment Assembly

- > Ku-Band Type 1 encryption (available)
- > Mux and demux functions (when needed)
- > Size: 21" (w) x 11" (h) x 21" (d)



#### Remote Equipment Assembly

- > Separated from LEA by up to 1 km via a fiber-optic cable
- > Modem functions for all waveforms on single card
- > IF-to-RF frequency conversion for Ku-band
- > UHF AES encryption
- > Size: 23" (w) x 10" (h) x 26" (d)



#### 48" Antenna

- > Ku-Band LOS
- > Size: 48" (dia) x 48" (d) x 72" (h)
- > Floppable RFE



### PHYSICAL CHARACTERISTICS (CONTINUED)

#### Full System

- > Total weight: 825 lb. (755 lb. without cables)
- > Total power: 745 W at 120 VAC 60 Hz  
700 W at 28 VDC (antenna and RFE)

#### System (without antenna)

- > Total weight: 515 (445 lb. without cables)
- > Total power: 745 W at 120 VAC 60 Hz  
200 W at 28 VDC (RFE)

### PERFORMANCE CHARACTERISTICS

#### LOS Link Configuration

- > 48" antenna
- > Ku-Band
- > Up to 274 Mbps (downlink), 137 Mbps (uplink)

#### User Interfaces

- > 10/100 Base-T Ethernet (3 each)
- > Gigabit Ethernet (1 each)

#### Waveforms

- > STD-CDL (274 Mbps Ku-Band)
- > Bandwidth-efficient modes

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