

L/S/C Ku Band GROUND DATA TERMINAL



300 km
Line Of Sight Range

274
MBPS

Air Data Terminal

C·D·L·S·
Common Data Link System

Ground Control Station



Directional Antenna



Ground Modem



Ground Data Terminal

Savronik L/S/C Ku Band Data Link System is a full-duplex, Line-Of-Sight data link solution including modem, a directional antenna with related RF units over a Tripod secured with Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS). Ground Data Terminal is compliant with NATO Interoperability Standard STANAG 7085 for ISR Platforms at Ku frequency Band.

Data Link System is a turnkey solution consists of Ground Data Terminals (GDT) and an Air Data Terminals (ADT) designed for manned and unmanned platforms. Air/Ground Data Terminal is able to capture multiple sensors, transmit HD video (raw HD video over HD-SDI interface or HD video via ethernet interface) in real time, drive directional antennas for long LOS ranges and maintain seamless direct IPconnectivity between aircraft and ground control station.

Savronik Ku Band Air/Ground Data Terminal's flexible architecture also allows user to integrate custom encryption cores which can be country specific cores as well.

Combining a 10W High Power Amplifier on the ground and Air Data Terminal with a Directional Antenna, secure (**DSSS-FHSS**) video and telemetry link is set over a LOS distance of 300 km.



AIRBORNE



MARITIME



HANDOVER



GPS/AUTO
TRACKING



AUTOMATIC
SIGNAL TRACKING



SECURE RF LINK
(DSSS, FHSS)



AES-256



CERTIFIED



CERTIFIED

GENERAL SPECIFICATIONS

Datarate	: Up to 274 Mbps Support CDL Datarates for Ku Band (200-400 kbps, 2-10.71-21.42-44.73- 137.088-274.176 Mbps)
RF Frequency	: L/S/C (1-6 GHz) Ku Band (14-16 GHz)
Output Power	: 5-10W (with PA)
Link Security	: DSSS (Direct Spread Spectrum Sequence) FHSS (Frequency Hoping Spread Spectrum)
Range	: 200 km (108 nmi) 99% availability 300 km (162 nmi) 95% availability
Modulation and Coding	: BPSK, QPSK, OQPSK 1/2, 2/3, 3/4
Encryption	: AES-256 or User Type
Latency	: < 10 ms between two nodes
Video	: H.264/MPEG-4 AVC HD Video: 1 x HD-SDI (Mini BNC) Analog Video: 1 x SDI (Mini BNC)
Multiplexing	: IP Data, Compressed Video, Audio Synchronous & Asynchronous Data
Maintenance Network	: JTAG and Programming Interface : Layer-3 Ethernet Switching and filtering. Unicast/ Multicast/ Broadcast Flow
Monitor	: Built In Test Capabilities
Interoperability	: STANAG 7085 for Ku Band
Software	: RTCA/D0- 178B Level C certifiable
Other	: Built In Test Capabilities

USER INTERFACES

Military Type F/O
Ethernet
RS232/RS422
10/100 Ethernet
GPS
28 VDC Power

APPLICATIONS

- UAV Links, ISR Applications
- Manned Fixed and Rotary Wings Aircrafts
- Unmanned and Manned Ground Vehicles
- Unmanned and Autonomous Surface Vessels
- Ship borne Application
- Search and Rescue Operations

ENVIRONMENTAL COMPLIANCY

Operating Temperature	: -32°C, +50°C Ground -40°C, +55°C Air
Storage Temperature	: -33°C, +60°C Ground -55°C, +70°C Air
Low Pressure Altitude	: Operation @ 10500ft Ground Operation @ 30000ft Air Storage @ 37000ft Both
Vibration	: MIL-STD-810G Method 514.6
Shock	: MIL-STD-810G Method 516.6
Humidity	: RH%95 ±%4

EMI/EMC

MIL-STD-461/464 Compliant

ADDITIONAL SPECS

HANDOVER and AIR RELAY

