

A·D·T·



L/S/C Ku Band
AIR
DATA
TERMINAL



274
MBPS

300 km
Line Of Sight Range

Savronik L/S/C Ku Band Air Data Terminal is a full-duplex, Line-Of-Sight data link solution secured with Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS). Air Data Terminal is compliant with NATO Interoperability Standard STANAG 7085 for ISR Platforms at Ku frequency Band.

Directional Antenna
Airborne Modem



Designed for manned and unmanned platforms, Savronik Air Data Terminal is industry's most flexible airborne data link product being able to capture multiple sensors, multiplex data from various I/O ports, transmit real time HD video raw HD video over HD-SDI interface or HD video via ethernet interface, and drive multiple directional antennas for long LOS ranges in order to maintain seamless IP-connectivity between air and ground.

Air Data Terminal supports AES-256 for data security. Its flexible architecture also allows user to integrate custom encryption cores which can be a third country specific cores. Air Data Terminal also has secure RF link capabilities which can be selected by the user among two different options; Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

Combining Savronik Auto Tracking Antenna on the ground, a secure video and telemetry link is set over a LOS distance of 300 km. Known and simple interfaces provide a direct IP-connectivity between Ground Control Station equipment and avionics units on the air.

Air Data Terminal employs different and multiple antennas to support various fixed wing and rotary platforms. Switching between different antennas are done automatically by intelligent algorithms embedded in the unit. The unit also manages hand over procedures in intersection points of different coverage areas of ground stations.



AIRBORNE



MARITIME



HANDOVER



GPS/AUTO TRACKING



SECURE RF LINK (DSSS, FHSS)



AES-256



CERTIFIED



CERTIFIED



CERTIFIED

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GENERAL SPECIFICATIONS

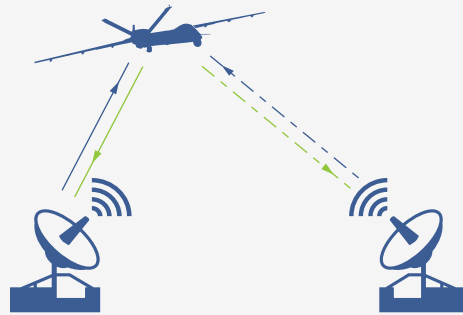
Datarate	: Up to 274 Mbps Support CDL Datarates for Ku Band (200-400 kbps, 2-10.71-21.42-44.73- 137.088-274.176 Mbps)
RF Frequency	: L/S/C (1-6 GHz) Ku Band (14-16 GHz)
Link Security	: DSSS (Direct Spread Spectrum Sequence) FHSS (Frequency-Hopping Spread Spectrum)
Output Power	: 10W (with PA)
Range	: 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 Encryption
Multiplexing	: IP Data, Compressed Video, Audio Synchronous & Asynchronous Data
Latency	: < 10 ms air-to-ground
Video	: H.264/MPEG-4 AVC HD Video: 1 x HD-SDI (Mini BNC) Analog Video: 1 x SDI (Mini BNC)
Maintenance	: JTAG and Programming Interface
Network	: Layer-3 Ethernet Switching and filtering. Unicast/ Multicast/ Broadcast Flow
Interoperability	: STANAG 7085 for Ku Band
Software	: RTCA/D0- 178B Level C certifiable
Other	: Built In Test Capabilities

USER INTERFACES

RF	: SMA (f)
Video	: SDI (BNC) and HD-SDI
Ethernet	: 10/100/1000
Maintenance	: RS-232 / RS-422
Serial (User)	: RS-422 /RS-232
Other	: GPS (SMA (f)) JTAG
Input Voltage	: 28 VDC +/-4 VDC (MIL-STD-704 Compatible)

ADDITIONAL SPECS

• HANDOVER



ENVIRONMENTAL COMPLIANCY

Operating Temperature	: -40°C, +55°C
Storage Temperature	: -55°C, +70°C
Low Pressure Altitude	: Operation @ 30000ft Storage @ 37000ft
Acceleration	: 6g operation, 9g stabilization
Vibration	: MIL-STD-810G Method 514.6
Shock	: MIL-STD-810G Method 516.6
Humidity	: RH%95 ±%4
Rain	: MIL-STD-810G Method 506.5

EMI/EMC

MIL-STD-461/464 Compliant

SUPPORTED PLATFORMS

Tactical UAV
MALE UAV
Manned Fixed Wing
Rotary Wing
Shipborne

• AIR RELAY



Omni Antenna



Blade Type
Omni Antenna



Directional Antenna
Type-1 with Water Drop
Type Radome (Optional)