



HGA-6500T



HLD-5011A



SDU-5048



SCM-5055

# T420 ROTARY WING SYSTEM

**A COMPACT, HIGH-PERFORMANCE ANTENNA SYSTEM  
DESIGNED SPECIFICALLY FOR ROTARY-WING AIRCRAFT**

The T420 system is a versatile Satcom solution designed for both rotary and fixed-wing aircraft, delivering speeds up to 1 Mbps for real-time streaming of surveillance video and mission-critical data. It supports clear communication via VoLTE and offers flexible installation options, including an SDU and HLD, along with boom and tail antenna placements to suit various airframes.



# T420 - ROTARY WING SYSTEM

Featuring a lightweight, high-gain antenna, the system ensures strong, reliable connectivity without impacting aircraft performance.

Engineered to handle critical mission data such as ISR, troop information, and mission video, it guarantees robust data transfer. Its compact components enable easy integration in space-constrained environments. With higher throughput than competing solutions, the T420 is ideal for demanding aviation missions requiring dependable, high-capacity communication and seamless data streaming.



**EXTENDED ENVIRONMENTAL RANGE IN TEMPERATURE AND VIBRATIONS**



**GIMBAL ANTENNA FOR IMPROVED PERFORMANCE AND EASE-OF-INSTALL**



**LOW POWER CONSUMPTION (112W MAX)**



**DATA RATES UP TO 1MBPS**



## HGA-6500T HGA - HIGH GAIN ANTENNA

### Technical Specification

<b>DIMENSIONS AND WEIGHT</b>	DIAMETER:	257 MM
	HEIGHT:	259 MM
	BASE PLATE SIZE:	334 X 290 MM
	WEIGHT:	3.8 KG
<b>INTERFACES</b>	RF ANTENNA PORT:	TNC MALE
	CONTROL PORT:	SMA FEMALE
<b>ALTITUDE</b>	UP TO 70,000 FT	
<b>TEMPERATURE RANGE</b>	OPERATING:	-65°C TO +70°C
	STORAGE:	-65°C TO +85°C
<b>VOLTAGE</b>	28 VDC	
<b>POWER CONSUMPTION</b>	UP TO 22W	
<b>QUALIFICATION CATEGORY</b>	DO-160E (DETAILED INFORMATION CAN BE PROVIDED UPON REQUEST)	

### Features

- Smallest swept volume available for a mechanically steered high gain antenna
- Excess gain can be used for longer RF cable runs between antenna and HLD
- Integral Beam Steering Unit with ARINC 600 interface reduces overall box count
- Ruggedized and qualified for helicopter installation
- Externally mountable with fairing - no additional radome required
- Seamless coverage over Thuraya-4 satellite



HLD-5011A

## HLD – HIGH POWER, LOW NOISE AMPLIFIER AND DIPLEXER

### Technical Specification

<b>DIMENSIONS AND WEIGHT</b>	LENGTH:	197 MM
	WIDTH:	190 MM
	HEIGHT:	60 MM
	WEIGHT:	2.5 KG
<b>INTERFACES</b>	ANTENNA PORT:	TNC FEMALE
	RF RX PORT:	TNC FEMALE
	RF TX PORT:	N-TYPE MALE
	POWER/CONTROL PORT:	MS3470L1210P
<b>TEMPERATURE RANGE</b>	OPERATING:	-55°C TO +70°C
	STORAGE:	-55°C TO +85°C
<b>VOLTAGE</b>	28 VDC	
<b>POWER CONSUMPTION</b>	UP TO 50W	
<b>QUALIFICATION CATEGORY</b>	DO-160E (DETAILED INFORMATION CAN BE PROVIDED UPON REQUEST)	

### Features

- Single box unit with low noise receive amplifier and high gain transmit amplifier
- Reduces system size
- Utilized with an SDU
- Can be used with HGA-6500T and IGA-5001T antennas
- Can be mounted in non-pressurized environment



SDU-5048

## SDU – SATELLITE DATA UNIT

### Technical Specification

<b>DIMENSIONS AND WEIGHT</b>	LENGTH:	343 MM
	WIDTH:	57 MM
	HEIGHT:	194 MM
	WEIGHT:	4.5 KG
<b>INTERFACES</b>	ARINC 600 CONNECTOR 3 CAVITIES:	
	TOP PLUG:	50 OHM COAX RF TX, CONFIG. PINS, ATE PINS
	MIDDLE PLUG:	ETHERNET, AUDIO, ARINC 429, SCM, DISCRETE
	BOTTOM PLUG:	50 OHM COAX RF RX, ANTENNA CONTROL
<b>TEMPERATURE RANGE</b>	DC POWER	
	OPERATING:	-40°C TO +55°C
	STORAGE:	-55°C TO +85°C
<b>VOLTAGE</b>	28 VDC	
<b>POWER CONSUMPTION</b>	UP TO 44W	
<b>QUALIFICATION CATEGORY</b>	DO-160E (DETAILED INFORMATION CAN BE PROVIDED UPON REQUEST)	

### Features

- IP data and VoLTE services
- 2 MCU package size
- Low pressure operation (unpressurized aircraft cabin)
- User friendly web interface