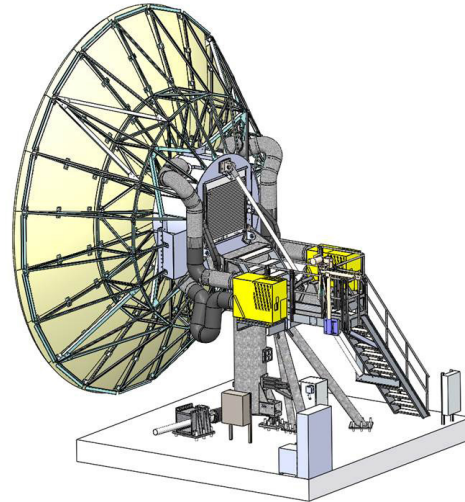
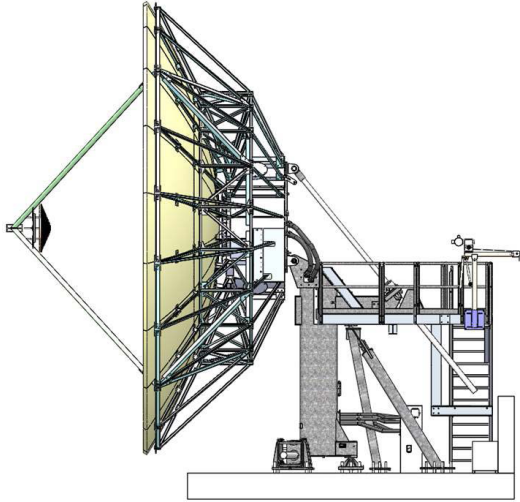


9.2 Meter, KXKA Antenna



Cassegrain 4-Port Tx/Rx Circular feed with optional TE21 tracking coupler (monopulse)

High precision Ka-Band Panels

Steel back-up structure painted white, closed for anti-icing option

Large working platform with access via stairway / handrails and electric hoist to ground

Large 9 foot hub with roll-up, lockable hub access door

Overview

Combining high performance and quality components, SATCOM Technologies' new 9.2-Meter KX Antenna delivers the best qualities of Ka-Band antenna capability mounted on its cost effective and durable kingpost pedestal.

The 9.2-Meter KX Antenna is an antenna/pedestal combination that delivers world-class Ka-Band transmit and receive performance with superior and reliable antenna control.

General Dynamics' SATCOM Technologies is the world's leading supplier of satellite communications earth stations. For Ka-Band transmission and reception, General Dynamics' SATCOM Technologies has the right antenna to meet your needs.

Features	
Reflector	9.2 meter Precision Reflector
Operating Frequency (GHz) Receive Transmit Optional Monopulse Tracking Channel	17.7 to 21.2 GHz (customizable) 27.0 to 30.0 GHz (customizable) 17.7 to 20.2 GHz
Available Feeds	2-port and 4-port, circular, linear or CP/LP switchable polarization options plus 2-ports for optional monopulse tracking
Antenna Gain (Typical) Tx Port Input - Typical at 28.50 GHz Rx@Feed Flange - Typical at 19.45 GHz	66.0 dBi 63.3 dBi
G/T (Typical at 19.45 GHz @ 20° Elevation and 120K LNA (Standard Band	LNA mounted on Feed Flange: 39.45 dB/K System: 38.9 dB/K

9.2-Meter, KXKA Antenna

Specifications		
3 dB Beamwidth Tx Rx	0.07° 0.10°	
Axial Ratio	0.5 dB (30.7 dB)	
Port-to-Port Isolation (CP) TX/TX and RX/RX RX/TX and TX/RX	16 dB 85 dB	
Feed RF Power Handling	500W CW per port, 1KW total	
Reflector	<ul style="list-style-type: none"> • Steel back-up structure painted white • Enclosed for anti-icing option • High precision Ka panels 	
Pedestal	<ul style="list-style-type: none"> • Kingpost, painted white • Limited continuous AZ travel 	
Travel Ranges	EL: 0 to 90° AZ: 180° (2 - 95° segments)	
Axis Velocity & Acceleration (average)	EL: 0.1°/s; 0.1°/s ² AZ: 0.1°/s; 0.1°/s ²	
Antenna Drive Configuration	AZ & EL: Machine screw actuators	
Primary Antenna Tracking Mode	Step Track / OpTrack (Monopulse optional)	
Anti-Ice Solution	Feed blower, heated sub-reflector, optional primary reflector - Gas or electric	
Anti-Ice Performance	Snow & Ice: 4"/hr (10 cm/hr) and up to 1" buildup on structure with less than a 3/4 dB of signal loss with all heaters on	
Hub Size	Large 9' hub with roll-up, lockable hub door which can accommodate up to 8 HPAs and associated converters with online component replacement	
Hub Environmental Control	Optional redundant, closed air-conditioning systems for various environmental conditions	
Customization/Integration	Designed to be customized or tailored to customer requirements	
Elevation Platform and Access	Large working platform with access via stairway with handrails and electric hoist to ground level	
Limited Driving Wind Speed	62 mph (100 km/hr)	
Survival Wind Speed	125 mph (200 km/hr)	
Antenna Control System	Model 950, Predictive Tracking (Optrack) Model 950 or 970 Monopulse Tacking Option	
Antenna Two-Axis Pointing Performance (over 10° of travel)	Model 950: 0.0141° RMS no Wind / 0.0214° RMS 30 mph gusting to 45 mph Model 970: 0.0141° RMS no Wind / 0.0205° RMS 30 mph gusting to 45 mph	
Tracking performance:	Model 950	Model 970
Optrack No Wind	0.0075°	0.0075°
Optrack with Winds 30 mph gust 45 mph	0.0102°	0.0092°
Monopulse No Wind	0.0065°	0.0067°
Monopulse with Winds 30 mph gusting to 45 mph	0.0102°	0.0068°
Antenna Radiation Patterns	Compliant with FCC, ITU, ANATEL, and Eutelsat regulations, ARSTRAT capable	
Temperature Range	Operational: -15° to +50°C (optional -40°C)	
Delivery and Installation **	Ship: 4 Months; Install/Test: 3 weeks	

** Geographical location and delivery delays may impact install completion

GENERAL DYNAMICS
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9p2MeterKXKA_Antenna-3-0518