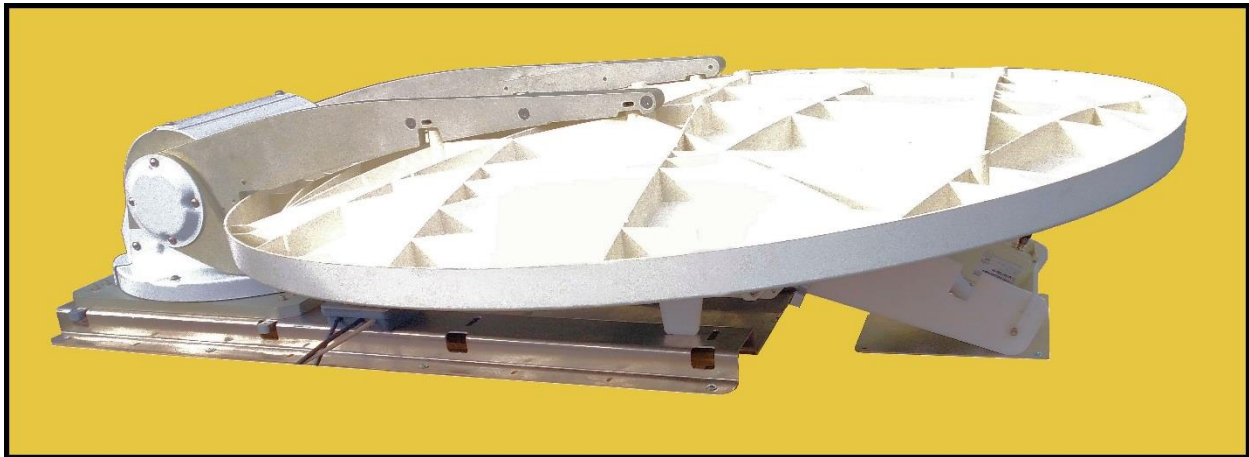


The RFM 1200 and RFM 980 Automatic Acquire Satellite Systems for VSAT and SNG applications worldwide. Structural Aluminum design with external components Anodized, using sealed ball bearings, high density UV protected Acetal plastics, and Stainless hardware insures this product is ready for use in all environments.



- Stowed Height 14.50"
- Elevation Travel to 80 degrees Satellite Look Angle
- Total Azimuth Travel of 366 degrees insures no blind spots
- Polarity (Skew) +/- 94 degrees
- 100% integrated Gear Driven
- Count Encoders AZ, EL and Pol
- Tilt/Angle Sensor Elevation
- Elevation Stow Position Sensor
- Azimuth Stow Position Sensor
- Overcurrent Stall Protections
- Manual AZ and EL Stow Cranks from both sides of Base.

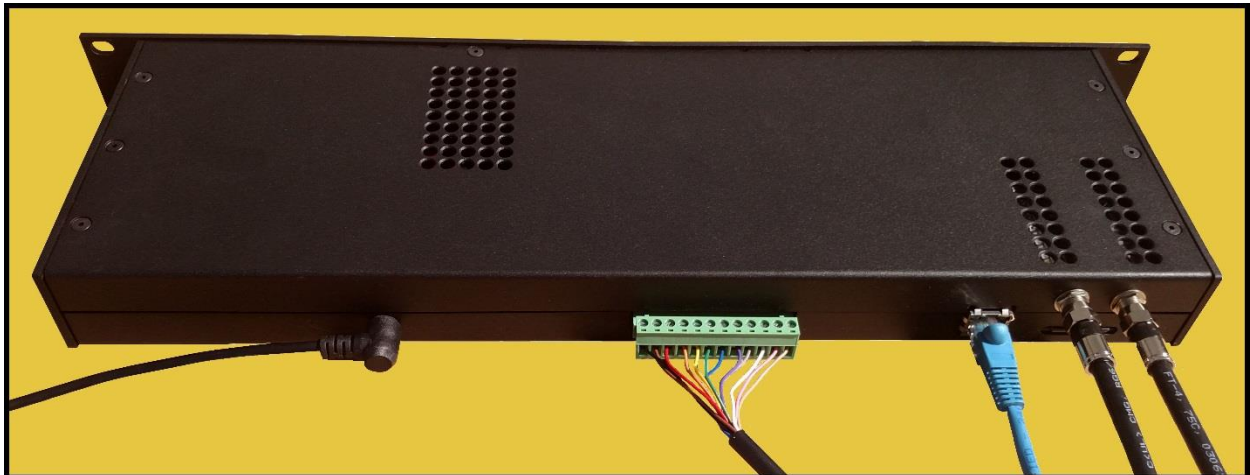


- Integrated GPS under mount Cover simplifies wiring
- Integrated Sensor PCB Assembly for Dish Tilt, GPS, and Position Sensors
- Easy Cable Runs with Connection Box at Mount - Protected
- Single 12 Wire Control Cable with removable connector for easy installation
- Great Fly Away Unit - 2 box solution with simple Dish Attachment
- SNG Ready with HPAs up to 45 Lbs. between Feed Arms
- Optional Gas Shocks for extreme Sat Look Angles
- 100% Field Serviceable

Antennas use the DataSAT ACU-2 Antenna Controller manufactured by RF Mogul



- Front Panel 24 x 2 Line LCD Character Display
- Real-time Volt and Current Monitor LED Display
- Direct Search, Stow and Power Commands
- Use as Stand Alone or interface with iDirect or HNS Modems
- Internal RF Tuner uses DVB-S2, DVB-S, and/or Modem Lock for Sat ID
- HTML GUI Display for setup, configurations and operation
- Illuminated Main Power Switch
- USB Port for simple upgrades
- Uses External 24 VDC 10 Amp Power Supply
- 12 Pos Euro Style Connector simplifies connection to the Antenna Pedestal
- RG6 Sat In and RF Pass for Modem
- 5 Minute typical search times.



Specifications and General Information

General Information

Reflector
Mount Type
Optics
Polarization

RFM 980

Molded FRP
EL over AZ
Offset Prime Focus
Feed Rotation

RFM 1200

Molded FRP
EL over AZ
Offset Prime Focus
Feed Rotation

Dimensions

Stowed Height	14.5"	14.5"
Stowed Length	56"	70"
Stowed Width	39.4"	48.6"
Deployed Height (max)	55"	68"
Weight	170.0 Lbs. (approx.)	180.0 Lbs. (approx.)

Mechanical

Azimuth Travel-Speed	366 degrees - 4 deg/sec	366 degrees at 4 deg/sec
Elevation Travel - Speed	0-80 deg at 2.2 deg/sec	0-80 deg at 2.2 deg/sec
Polarization Travel - Speed	94-0-94 at 12 deg/sec	94-0-94 at 12 deg/sec
Typical Acquisition Time	< 5 minutes	< 5 minutes
Integrated Azimuth Drive	Gear/Worm/24VDC Motor	Gear/Worm/24VDC Motor
Integrated Elevation Drive	Gear/Worm/24VDC Motor	Gear/Worm/24VDC Motor
Integrated Skew (Pol) Drive	Gear/Gear/12-24VDC Motor	Gear/Gear/12-24VDC Motor
Azimuth Override (stow)	Mechanical Hand Crank	Mechanical Hand Crank
Elevation Override (stow)	Mechanical Hand Crank	Mechanical Hand Crank
Polarization Override	not required	not required
Safety Stall at Travel Limits	AZ, EL, Pol (continuous)	AZ, EL, Pol (continuous)

Sensors

Azimuth	Encoder, Stow, Stall	Encoder, Stow, Stall
Elevation	Encoder, Stow, Max, Stall	Encoder, Stow, Max, Stall
Polarization (Skew)	Encoder, Stall, Stall Reset	Encoder, Stall, Stall Reset
Elevation Satellite Angle	Digital Tilt Sensor (RS232)	Digital Tilt Sensor (RS232)
GPS (RS232 NEMA 0183)	yes	yes
True Stow Detection	yes	yes
Independent Stow Detection	optional	optional

RF Specifications

TX Frequency	13.75 - 14.50 GHz	13.75 - 14.50 GHz
TX Gain	41.3 dBi	43.2 dBi
RX Frequency	10.95 - 12.75 GHz	10.95 - 12.75 GHz
RX Gain	39.8 dBi	41.7 dBi
Polarization	Hor/Ver - Skewable	Hor/Ver - Skewable
TX/RX Port Interface	WR-75	WR-75
TX/RX L-band Interface	RG-6	RG-6
Other Antenna Specifications	See Prodelin Series 1984	See Prodelin Series 1134

Antenna Controller

User Controls on Front Panel	RF Mogul ACU-2	RF Mogul ACU-2
User Front Panel Display	Power, Search, Stow	Power, Search, Stow
User HTLM (LAN) Interface	LCD 24 x 2 Character	LCD 24 x 2 Character
Antenna Interface	Full LAN GUI -setup-operation	Full LAN GUI -setup-operation
GPS Interface	12 Wire Connector	12 Wire Connector
	RS232 - thru 12 Wire Conn	RS232 - thru 12 Wire Conn

Tilt/Angle Interface	RS232 - thru 12 Wire Conn	RS232 - thru 12 Wire Conn
Stow/Sensor Interface	RS232 - thru 12 Wire Conn	RS232 - thru 12 Wire Conn
Modem Interface	Ethernet - thru Router	Ethernet - thru Router
Signal Detect (DVB-S2 Tuner)	RF Input 950-2150 MHz	RF Input 950-2150 MHz
Signal Pass Thru	yes - for Modem	yes - for Modem
External Power Interface	24VDC External Supply	24VDC External Supply

Electrical Requirements

Power Consumption	140W max	140W max
Controller Input Voltage	24VDC Power Supply (included)	24VDC Power Supply (included)
AC Requirements	100~240 VAC 50/60 Hz	100~240 VAC 50/60 Hz

Cable Requirements

TX (out to Antenna)	RG 6	RG 6
RX (in from Antenna)	RG 6	RG 6
Antenna Control Cable	12 Cond 22AWG (18AWG *)	12 Cond 22AWG (18AWG *)
HPA Power Cable	Optional	Optional
Maximum Cable Length	75 Ft *	75 Ft *

Environmental

Operational Wind Speed	45mph with <0.25 dB loss Ku Band 72kph with <0.25 dB loss Ku Band	45mph with <0.25 dB loss Ku Band 72kph with <0.25 dB loss Ku Band
Max wind speed to stow	65mph (105kph)	60mph (96kph)
Operational Temperature	-40 to 140 deg Fahrenheit -40 to 60 deg Celsius	-40 to 140 deg Fahrenheit -40 to 60 deg Celsius
Storage Temperature	-55 to 155 deg Fahrenheit -48 to 68 deg Celsius	-55 to 155 deg Fahrenheit -48 to 68 deg Celsius

Options

HPA Amplifier Mounting	Between Arms up to 45 Lbs.	Between Arms up to 45 Lbs.
Rotational Waveguide		
Coupler	optional	optional
Flexible Waveguide	Between Arm Mounting	Between Arm Mounting
Feed Arms Gas Shocks	optional/recommended	optional/recommended
Remote Stow (logic level)	optional	optional
Independent Stow Sensor	optional	optional

