

REQUEST FOR QUOTATION

Antenna - Motor - Feed - Mount - Controller - Modem - Configuration

Please supply the following information, fill out the configuration sheet(s), and return

1. Requested by:

2. End user/project/program:

3. Quantity required:

4. Site location:

5. Site voltage:

6. Date quotation needed:

7. Required delivery date/ On Air Date

8. List any special requirements not shown on configuration sheets

Antenna Size:

- 3.8m** **4.8m** **6.3m** **7.3m**
 9m **11m** **13m** _____

Pedestal options

- Standard travel: Azimuth 120° continuous; elevation 0° to 90° continuous
- Extended travel: Azimuth 200° in two overlapping 120° segments; elevation 0° to 90°
- Other _____

Motorization options (3-phase power required)

- none
- 3-axis motorization and limit switches (for linear polarized antennas)
- 2-axis motorization and limit switches (for circular polarized antennas)

Deicing options

- none
- Feed and subreflector only, without controls
- Full reflector, feed, subreflector, with automatic controller

Feeds

Configuration		Function	Receive	Transmit
C-band – Linear	<input type="radio"/>	2-port Rx Only	3.625 – 4.200	
	<input type="radio"/>		3.400 – 4.200	
	<input type="radio"/>	2-port Tx/Rx	3.625 – 4.200	5.850 – 6.425
	<input type="radio"/>		3.400 – 4.200	5.850 – 6.725
	<input type="radio"/>	4-port Tx/Rx	3.625 – 4.200	5.850 – 6.425
	<input type="radio"/>		3.400 – 4.200	5.850 – 6.725
C-band – Circular	<input type="radio"/>	2-port Rx Only	3.625 – 4.200	
	<input type="radio"/>		3.400 – 4.200	
	<input type="radio"/>	2-port Tx/Rx	3.625 – 4.200	5.850 – 6.425
	<input type="radio"/>	4-port Tx/Rx	3.625 – 4.200	5.850 – 6.425
	<input type="radio"/>		3.400 – 4.200	5.850 – 6.725
Ku/DBS - Linear	<input type="radio"/>	2-port Rx Only	10.70 – 12.75	
	<input type="radio"/>	2-port Tx/Rx	10.70 – 12.75	13.75 – 14.50
	<input type="radio"/>		10.70 – 12.75	17.30 – 18.40
	<input type="radio"/>	4-port Tx/Rx	10.70 – 12.75	13.75 – 14.50
	<input type="radio"/>		10.70 – 12.75	17.30 – 18.40
Other: Pol?	<input type="radio"/>			

Sidelobe performance requirements

- ITU-R S580 FCC § 25.209 Astra Other _____

Hub options

- none
- Environmental with front and rear closeout, utility light and outlet, thermostat, vent fan
 - Heater
- Aluminum 2 piece hub closeout

Transmit axis crossover (requires environmental hub or aluminum hub closeout option)

- None
- Single waveguide run from antenna base to feed port
 - One 40 dB crossguide coupler at feed input port
- Dual waveguide run from antenna base to feed ports
 - Two 40 dB crossguide couplers at feed input ports

Other options

- Ladder and work platform
- Utility outlet and light in hub (not required with environmental hub option)
- Azimuth and elevation verniers
- Lightning arresting down conductor
- Feed rain blower, heated, automatic
- Aircraft warning light

- Export packing
 - Sea freight (Customer supplied containers for FCA Kilgore freight)
 - Air freight

- Low temperature operation to -22°F/-30°C
- White painted reflector backup structure
- White painted pedestal over galvanize
- Antenna controller (see separate sheet)
- LNAs/LNBs (see separate sheet)

Note: => check one in each group
 => check all that apply

Antenna Controller and Tracking Configurations

Antenna Controller

- Antenna Control Without Tracking
 - 7133B antenna jog control system
 - 7134 ACS antenna controller with 50 target positions, 99 time tagged positions

- Antenna Control With Tracking
 - 7134 EMT antenna controller with 50 target positions, 99 time tagged positions, step track
 - 7200 ACS antenna controller with Orbital Prediction Tracking, 50 target positions
 - Single speed resolvers, 0.01° resolution (standard)
 - Dual speed resolvers, 0.001° resolution
 - Optical encoders

Tracking Receivers

- Synthesized Digital Tracking Receiver with real time spectral and C/N₀ display

<u>Model</u>	<u>Inputs</u>	<u>Frequency</u>
<input type="radio"/> DTR-1000	Single input	950 - 2100 MHz
<input type="radio"/> DTR-2000	Dual input	950 - 2100 MHz
<input type="radio"/> DTR-5000	Single input	3.40 - 4.20 GHz
<input type="radio"/> DTR-6000	Dual input	3.40 - 4.20 GHz
<input type="radio"/> DTR-A000	Single input	10.7 - 11.75 GHz
<input type="radio"/> DTR-B000	Dual input	10.7 - 11.75 GHz
<input type="radio"/> DTR-C000	Single input	11.7 - 12.75 GHz
<input type="radio"/> DTR-D000	Dual input	11.7 - 12.75 GHz
<input type="radio"/> DTR-AC00	Single input	10.7 - 12.75 GHz
<input type="radio"/> DTR-BD00	Dual input	10.7 - 12.75 GHz

Note: => check one in each group
 => check all that apply

LNA/LNB Configurations

Configuration

- Stand alone
- 1:1 redundancy
- 1:2 redundancy only)
- Dual 1:1 redundancy only)
- PS-1000/4 Power supply
- Cross guide coupler (1)
- Cross guide couplers (2)
- Cross guide couplers (2)
- Input Isolator (LNB only)
- Input Isolators (LNB only)
- Input Isolators (LNB only)

LNA	C-band	Ku-band
Model	<input type="radio"/> LCC4S-XX 3.60 – 4.20 GHz	<input type="radio"/> LKE12S-XX 10.95 – 12.75 GHz
	<input type="radio"/> LCD4S-XX 3.40 – 4.20 GHz	<input type="radio"/> LKR12S-XX 10.70 – 12.75 GHz
Noise Temp	<input type="radio"/> 45 K	<input type="radio"/> 90 K
	<input type="radio"/> 40 K	<input type="radio"/> 85 K
	<input type="radio"/> 35 K	<input type="radio"/> 80 K
	<input type="radio"/> 30 K	<input type="radio"/> 75 K
	<input type="radio"/> 28 K	<input type="radio"/> 65 K
Gain	<input type="radio"/> 60 dB (std)	<input type="radio"/> 60 dB (std)
	<input type="radio"/> 50 dB	<input type="radio"/> 50 dB
1 dB Comp.	<input type="radio"/> +10 dBm (std)	<input type="radio"/> +12 dBm (std)
	<input type="radio"/> +20 dBm	<input type="radio"/> +20 dBm

LNB	C-band	Ku-band
Model	<input type="radio"/> TLNB-3230FB 3.40 – 4.2 GHz Output: 950 – 1750 MHz Gain >60 dB, Noise Temp ~ 30K LO Freq: 5.15 GHz Stability: ±10 KHz	<input type="radio"/> TLNB-1109A 11.70 – 12.20 GHz Output: 950 – 1450 MHz Gain >55 dB, Noise Figure= 0.9 dB (70K) LO Freq : 10.75 GHz Stability: ±10 KHz
		<input type="radio"/> TLNB-1109B 12.25 – 12.75 GHz Output: 950 – 1450 MHz Gain >55 dB, Noise Figure= 0.9 dB (70K) LO Freq : 10.00 GHz Stability: ±10 KHz
		<input type="radio"/> TLNB-1109C 10.95 – 11.70 GHz Output: 950 – 1700 MHz Gain >55 dB, Noise Figure= 0.9 dB (70K) LO Freq : 11.30 GHz Stability: ±10 KHz

Note: => check one in each group
 => check all that apply

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List Modem Requirement & Link Budget