

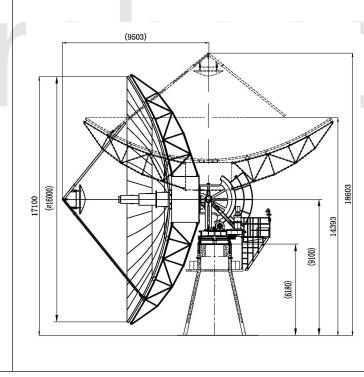
Http://www.probecom.cn

16 Meter Earth Station Antenna



General Description

The probecom 16-meter antenna delivers exceptional performance for transmit/receive and receive only applications for L through Ka-band frequencies. This antenna offers a reflector design that incorporates precision-formed panels, truss radials and hub assembly using matched tooling for interchangeable components. It features an innovative Cassegrain feed and sub-reflector design which results in high gain, low noise temperature, high antenna efficiency and excellent rejection of noise and microwave interference. A large center hub provides spacious accommodation for equipment mounting. The reflector is supported by a galvanized elevation over azimuth kingpost pedestal that provides the required stiffness for pointing and tracking accuracy. The pedestals are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations.



Highlighted Features

*Meets CCIR 580 and INTELSAT Requirements										
*Precisely adjusted before leaving factory, and no need										
theodolite to adjust the panel accuracy;										
*High precision alloy aluminum main reflector.										
*Hot spray galvanized with white paint										
*CP/LP switchable feed										
*High RF performance										
*Galvanized stainless steel hardware										
*Different frequency ranges from many feed configurations										
*Ka band antenna with rotary pedestal is available										
*A large hub for install RF equipments										
*Increase the surface spray zinc thickness along seaside.										

Options

*L,S, X ,Ka bands and multi-bands *Customer feed system design *800MHz Extended C band is available *Full motion antenna *Feed blower or deicing sub-systerm with automatic controls *Two or four Tx/Rx port in linear or circular polarized feeds *Antenna control system with tracking *ODU Support Kits *Increase the surface spray zinc thickness along seaside.

Antenna Accessory

- *Motorization Kits
- *Limit Switches
- *Factory Feed System Testing and Documentation
- *Ocean /Air Transport Packing
- *Foundation Kit
- *Grounding Kit Cable-Mounting Kit

(1)	60T	FC1	160T	IC1	60T	K16	TOT		160T		
C160T								DBS160T DBS Band			
						· · · · · ·					
									17.3-18.4		
		-							66.8		
Polarization Linear/circular XPD(on Axis), 25		Linear/circular		Linear/circular		Linear		linear			
35	35	35	35	35	35	35	35	35	35		
30	30	30	30	30	30	30	30	30	30		
						/	1	/	/		
1.25	1.25	1.30	1.30	1.25	1.25	1.30	1.30	1.30	1.30		
51K 43K 41K	0.20°	54K 45K 43K	0.19°	56K 48K 45K	0.18°	82K 70K 67K	0.09°	80K 70K 66K	0.075°		
35.3dB/K	0.20	34.9dB/K	0.10	36.6dB/K	0.10	41.8dB/K	0.00	41.9dB/K	0.070		
	5		5		5	(1010 210 1)	2		2		
CPR229F		CPR229F		CPR229F		WR-75	WR-75	WR-75	WR-62		
0.4	0.3	0.4	0.3	0.4	0.3	0.5	0.4	0.5	0.5		
Isolation, Tx to Rx, dB 85 Tx/Tx ,Rx /Rx, dB (linear) 30 Tx/Tx ,Rx /Rx, dB (Circular) 20 Sidelobes		85 30 20		30 20		85 30 /					
		CCIR 580-5									
Antenna Diameter			16m								
Antenna Type			Cassagrain								
Surface Accuracy (RMS)			≤0.5mm ≤0.4mm								
Reflector Construction			70 precision-formed aluminum panels with heat-diffusing white paint, Hot spray galvanized back structure.								
Mount type				Kingpost pedestal Turn table							
Azimuth Antenna Pointing Range Polarization			±75°(three sections) 0°~90°(Continuous) ±90°(Continuous)				0°~90°(Continuous) ±90°(Continuous)				
Azimuth Travel Rate Motor Drive System Elevation Travel Rate Polarization Travel Rate			0.02°/S 0.02°/S 1°/S				0.003°-0.3°/S 0.003°-0.3°/S 1°/S				
ion											
Wind		79km/h gusting to 126km/h									
Survival Wind				200km/h(at zenith)							
Temperature				-40°~+60°							
Relative Humidity				100%							
Solar Radiation				1135Kcal/h/m²							
tion						0.15g(V)					
	Standar Receive 3.625~4.2 54.4 Linear, 35 30 0.5 1.25 51K 43K 41K 0.31° 35.3dB/K (30K LNA) CPR229F 0.4 CPR229F CPR220F CPR229F CPR220F CPR25F CPR25F CPR25F CPR25F CPR25F CPR25F CPR25F CPR25F CPR25F CPR2	Standard C band Receive Transmit 3.625~4.2 5.85~6.425 54.4 58.3 Linear/circular 35 30 30 0.5 0.5 1.25 1.25 51K 43K 43K 41K 0.31° 0.20° 35.3dB/K (30K LNA) 5 CPR229F CPR229F CPR137F 0.4 0.3 85 30 20 20 Itameter Type 30 1 20 Itameter Type 30 1 20 Itameter Type 30	Standard C band Extende Receive Transmit Receive 3.625~4.2 5.85~6.425 3.4~4.2 54.4 58.3 54.2 Linear/circular Linear/ 35 35 35 30 30 30 0.5 0.5 0.5 1.25 1.25 1.30 51K 54K 45K 41K 43K 45K 41K 54K 43K 0.31° 0.20° 0.32° 35.3dB/K (30K LNA) (30K LNA) 5 CPR229F CPR137F CPR229F 0.4 0.3 0.4 3 85 30 3 3 20 22 2 2 iameter	Standard C band Extended C band Receive Transmit Receive Transmit 3.625~4.2 5.85~6.425 3.4~4.2 5.85~6.725 54.4 58.3 54.2 58.6 Linear/circular Linear/circular Linear/circular 35 35 35 35 30 30 30 30 30 0.5 0.5 0.5 0.5 1.30 51K 54K 45K 44K 43K 45K 44K 43K 41K 43K 45K 44K 43K 44K 43K 45K 41K 43K 45K 45K 41K 43K 45K 45K 41K 43K 45K 45K 41K 43K 45K 45K 30 34.9dB/K (30K LNA) 5 CPR229F CPR137F CPR29F CPR137F 0.4 0.3 0.4 0.3 <td>Standard C band Extended C band Insat C Receive Transmit Receive Transmit Receive 3.625~4.2 5.85~6.425 3.4~4.2 5.85~6.725 4.5~4.8 54.4 58.3 54.2 58.6 55.9 Linear/circular Linear/circular Linear/circular Linear/circular 35 35 35 35 35 30 30 30 30 30 0.5 0.5 0.5 0.5 0.5 1.25 1.30 1.30 1.25 51K 54K 45K 48K 41K 43K 45K 48K 41K 43K 45K 48K 0.31° 0.20° 0.32° 0.19° 0.26° 3.04 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 20 20 22 2 CPR229F<td>Standard C band Extended C band Insat C band Receive Transmit Receive Transmit Receive Transmit 3.625-4.2 5.85-6.425 3.4-4.2 5.85-6.725 4.5~4.8 6.725-7.025 5.4.4 5.83 54.2 5.85-6.725 4.5~4.8 6.725-7.025 3.6 5.85 3.5 3.5 3.5 3.5 3.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 0.5 0.5 0.5 0.5 0.5 0.5 1.25 1.25 1.25 1.30 1.30 1.25 1.25 51K 54K 56K 48K 48K 41K 43K 45K 48K 48K 6.31° 0.20° 0.32° 0.19° 0.26° 0.18° 35.3dB/K 34.9dB/K (30K LNA) (30K LNA) (30K LNA) (30K LNA) 0.3° 6.7PR229F CPR137F CPR229F CPR137F 0.4° 0.3°<!--</td--><td>Standard C band Extended C band Insat C band Ku B Receive Transmit Linear/circular Linear/circular</td><td>Standard C band Extended C band Insat C band Ku Band Receive Transmit Transmit Receive Transmit Linear/circular Linear/circular Linear/circular Linear/circular Linear Linear Linear Linear Linear 1.2 1.25 1.25 1.30<!--</td--><td>Standard C band Excelve Insat C band Ku Band DBS Receive Transmit Receive Receive Transmit Receive Transmit Receive Transmit Receive<</td></td></td></td>	Standard C band Extended C band Insat C Receive Transmit Receive Transmit Receive 3.625~4.2 5.85~6.425 3.4~4.2 5.85~6.725 4.5~4.8 54.4 58.3 54.2 58.6 55.9 Linear/circular Linear/circular Linear/circular Linear/circular 35 35 35 35 35 30 30 30 30 30 0.5 0.5 0.5 0.5 0.5 1.25 1.30 1.30 1.25 51K 54K 45K 48K 41K 43K 45K 48K 41K 43K 45K 48K 0.31° 0.20° 0.32° 0.19° 0.26° 3.04 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 20 20 22 2 CPR229F <td>Standard C band Extended C band Insat C band Receive Transmit Receive Transmit Receive Transmit 3.625-4.2 5.85-6.425 3.4-4.2 5.85-6.725 4.5~4.8 6.725-7.025 5.4.4 5.83 54.2 5.85-6.725 4.5~4.8 6.725-7.025 3.6 5.85 3.5 3.5 3.5 3.5 3.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 0.5 0.5 0.5 0.5 0.5 0.5 1.25 1.25 1.25 1.30 1.30 1.25 1.25 51K 54K 56K 48K 48K 41K 43K 45K 48K 48K 6.31° 0.20° 0.32° 0.19° 0.26° 0.18° 35.3dB/K 34.9dB/K (30K LNA) (30K LNA) (30K LNA) (30K LNA) 0.3° 6.7PR229F CPR137F CPR229F CPR137F 0.4° 0.3°<!--</td--><td>Standard C band Extended C band Insat C band Ku B Receive Transmit Linear/circular Linear/circular</td><td>Standard C band Extended C band Insat C band Ku Band Receive Transmit Transmit Receive Transmit Linear/circular Linear/circular Linear/circular Linear/circular Linear Linear Linear Linear Linear 1.2 1.25 1.25 1.30<!--</td--><td>Standard C band Excelve Insat C band Ku Band DBS Receive Transmit Receive Receive Transmit Receive Transmit Receive Transmit Receive<</td></td></td>	Standard C band Extended C band Insat C band Receive Transmit Receive Transmit Receive Transmit 3.625-4.2 5.85-6.425 3.4-4.2 5.85-6.725 4.5~4.8 6.725-7.025 5.4.4 5.83 54.2 5.85-6.725 4.5~4.8 6.725-7.025 3.6 5.85 3.5 3.5 3.5 3.5 3.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 0.5 0.5 0.5 0.5 0.5 0.5 1.25 1.25 1.25 1.30 1.30 1.25 1.25 51K 54K 56K 48K 48K 41K 43K 45K 48K 48K 6.31° 0.20° 0.32° 0.19° 0.26° 0.18° 35.3dB/K 34.9dB/K (30K LNA) (30K LNA) (30K LNA) (30K LNA) 0.3° 6.7PR229F CPR137F CPR229F CPR137F 0.4° 0.3° </td <td>Standard C band Extended C band Insat C band Ku B Receive Transmit Linear/circular Linear/circular</td> <td>Standard C band Extended C band Insat C band Ku Band Receive Transmit Transmit Receive Transmit Linear/circular Linear/circular Linear/circular Linear/circular Linear Linear Linear Linear Linear 1.2 1.25 1.25 1.30<!--</td--><td>Standard C band Excelve Insat C band Ku Band DBS Receive Transmit Receive Receive Transmit Receive Transmit Receive Transmit Receive<</td></td>	Standard C band Extended C band Insat C band Ku B Receive Transmit Linear/circular Linear/circular	Standard C band Extended C band Insat C band Ku Band Receive Transmit Transmit Receive Transmit Linear/circular Linear/circular Linear/circular Linear/circular Linear Linear Linear Linear Linear 1.2 1.25 1.25 1.30 </td <td>Standard C band Excelve Insat C band Ku Band DBS Receive Transmit Receive Receive Transmit Receive Transmit Receive Transmit Receive<</td>	Standard C band Excelve Insat C band Ku Band DBS Receive Transmit Receive Receive Transmit Receive Transmit Receive Transmit Receive<		

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