

Technical Specifications

Electrical		C-Band Linear	C-Band Circular	Ku-Band
Antenna Size		2.4 M (8 ft.)	2.4 M (8 ft.)	2.4 M (8 ft.)
Operating Frequency (GHz)	Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz	3.625 - 4.20 GHz 5.85 - 6.425 GHz	10.70 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/- .2dB)	Receive Transmit	38.20 dBi 42.20 dBi	38.00 dBi 42.00 dBi	47.40 dBi 49.20 dBi
VSWR		1.3:1 max	1.3:1 max	Rx: 1.5:1 max Tx: 1.3:1 max
Pattern Beamwidth (in degrees at midband)	-3dB -15dB	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 0.70° Tx: 0.60° Rx: 1.60° Tx: 1.40°
Sidelobe Envelope, Co-Pol (dBi)				
100λ/D ≤ θ ≤ 20°		29 - 25 LogθdBi	29 - 25 LogθdBi	29 - 25 Log θdBi
20° <θ ≤ 26.3°		-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° <θ ≤ 48°		32 - 25 LogθdBi	32 - 25 LogθdBi	32 - 25 Log θdBi
θ < 48°		-10 dBi (averaged).	-10 dBi (averaged)	-10 dBi (averaged)
Antenna Noise Temperature				
5° Elevation		55 K	61 K	56 K
10° Elevation		47 K	53 K	51 K
20° Elevation		43 K	49 K	48 K
40° Elevation		43 K	49 K	41 K
Power Handling		1 kW	1 kW	100 W

Mechanical			
Reflector Material	Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Four-Piece, Prime Focus, Offset Feed		
Mast Pipe Size	6" SCH 40 Pipe (6.62" OD) 16.80 cm.		
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment		
Azimuth Adjustment Range	+/- 30° Fine Adjustment, 360° Continuous		
Mount Type	Elevation over Azimuth		
Shipping Specifications (Approximate Net Weight)	640 lbs	660 lbs	630 lbs.

Environmental Performance	
Wind Loading	Operational Survival
	50 mph (80 km/h) 125 mph (201 km/h)
Temperature (operational)	- 40° to 140°F (- 40° to 60°C)
Rain (operational)	½" / hr
Ice (operational)	-----
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Relative Humidity	0 to 100% with Condensation
Solar Radiation	360 BTU/h/ft ²

Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040.
 The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



**Satcom & Antenna
Technologies Division**
 1700 NE Cable Drive
 Conover, NC
 USA 28613

tel +1 770-689-2040
 +1 888-874-7646 (In North America)
 +1 619-240-8480 (Outside North America)
 email CustomerCareSAT@cpii.com
 web www.cpii.com

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.