



## Overview

Advantech Wireless A-Line Series 2.4M antenna adopts Dual Shaped Compact Cassegrain precision-formed reflector mounted on an Az over El pedestal providing necessary stiffness and pointing accuracy required in C and Ku band operation. It is provided with a Rx/Tx (2 ports) feed with corrugated horn and OMT and is of optimized R.F. specification, operates in circular or linear polarization selectable manually and meets any requirements of customers for particular applications.

# A-Line Series 2.4m ANTENNA



## Antenna Specifications

R.F Specifications				
Cassegrain Antenna with 2 port feed	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Frequency in GHz*	3.625-4.200	5.850-6.425	12.20-12.75	14.0-14.5
Gain	38	41.5	48	49
Antenna Noise Temp.				
10°Elevation	32K		48K	
20°Elevation	21K		38K	
40°Elevation	20K		35K	
Sidelobe Pattern	First sidelobe level $\leq -14$ dB Beyond first sidelobe meet IESS(Intelsat) or CCIR 580-4 Recommendation			
VSWR	1.3:1 (LP) 1.25:1 (CP)	1.3:1 (LP) 1.25:1 (CP)	1.25:1	1.25:1
Axial Ratio(CP only)	1.30	1.09	1.15	1.09
Power Handling Capability	2 Kw		1Kw	
Port to Port Isolation	80dB		85dB	
Feed Interfaces	CPR-229G	CPR-137G	WR75	WR75
NOTE: All values are at the rear feed output flange. The C-band frequency ranges are (1) Rx: 3.4-3.7GHz/Tx: 6.424-6.725GHz. (2) Rx: 3.4-4.2GHz /Tx:5.85-6.650GHz optional. The Ku-bands of VSAT antennas can be of 10.95- 11.7GHz or 11.7-12.2GHz even extended as 10.95-12.75GHz. They are available with an option for customers when order.				
Mechanical Specifications				
Azimuth Travel	0- 360°in total			
Elevation Range	0-90°			
Reflector	Aluminium			
Backup Structure	Steel			
Pedestal Structure	Steel			
Finish				
Reflector Surface	Aluminium panels with heat-diffusing white paint			
Pedestal and Steel Structure	Sand blast and hot spray galvanized and two times paint			
Antenna Drive Mode	Manual (Motorized drive optional)			
Options				
	Motorized drive			
Physical				
Ambient Temperature	-40°C to 60°C			
Operational Wind	50km/h gusts to 97km/h			
Survival Wind	200km/h			
Rain	Up to 100mm/h			
Relative Humidity	Up to 100%			
Solar Radiation	1000 kcal/M <sup>2</sup> /h			
Radial Ice (Survival)	25mm on all surface or 13mm on all surface with 130km/h wind gusts			
Shock and Vibration	As encountered during shipment by commercial air, sea or truck			
Corrosive atmosphere	As encountered in coastal regions and/or heavily industrialized areas			
Seismic(Survival)	0.3G's horizontal, 0.1G's vertical			
Shipping Weight	300kg			

**NORTH AMERICA**  
USA  
Tel: +1 703 659 9796  
Fax: +1 703 635 2212  
info.usa@advantechwireless.com

**CANADA**  
Tel: +1 514 420 0045  
Fax: +1 514 420 0073  
info.canada@advantechwireless.com

**EUROPE**  
UNITED KINGDOM  
Tel: +44 1480 357 600  
Fax: +44 1480 357 601  
info.uk@advantechwireless.com

**RUSSIA & CIS**  
Tel: +7 495 971 59 18  
info.russia@advantechwireless.com

**INDIA**  
Tel: +91 33 2415 5922  
info.india@advantechwireless.com

**SOUTH AMERICA**  
Tel: +1 514 420 0045  
Fax: +1 514 420 0073  
info.latam@advantechwireless.com

**BRAZIL**  
Tel: +55 11 3054 5701  
Fax: +55 11 3054 5701  
info.brazil@advantechwireless.com

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