

### Electrical

Antenna Size		2.4 M (96 in)
Operating Frequency	<i>Receive</i>	3.625 – 4.200 and 3.400 – 4.200 GHz
	<i>Transmit</i>	5.850 – 6.425 and 5.925 – 6.725 GHz
Midband Gain ( $\pm 0.2$ dB)	<i>Receive</i>	39.5 dBi
	<i>Transmit</i>	43.0 dBi
Feed Type		Linear or Circular
3 dB Beamwidth	<i>Receive</i>	1.9°
	<i>Transmit</i>	1.3°
Antenna Noise Temperature		
10° elevation		30° K
20° elevation		26° K
30° elevation		25° K
Cross-Pol Isolation (Linear)		> 30dB (on axis)
Side Lobe Envelope, Co-Pol Tx (dB)		
$100\lambda/D \theta \leq 20^\circ$		29-25 Log $\theta$ dBi
$20^\circ < \theta \leq 26.3^\circ$		-3.5 dBi
$26.3 < \theta \leq 48^\circ$		32-25 Log $\theta$ dBi
$\theta > 48^\circ$		-10 dBi (average)
VSWR		1.3:1 Max.
Feed Interface	<i>Receive</i>	CPR 229 F
	<i>Transmit</i>	Type N

### Mechanical

Reflector Material		Aluminum
Antenna Optics		Four- or Eight-Pieces, Center Feed, Ring Focus
Polarization Travel		$\pm 90^\circ$ Continuous
Mount Type		Elevation over Azimuth
Elevation Adjustment Range		5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range		360°, Continuous, Fine Adjustment
Mast Pipe Size and Height		5" (126mm) dia, 48" (1220 mm) height
Shipping Weight		

### Environmental Performance

Wind Loading	<i>Operational</i>	50 mph with 0.2° pointing error (80kmph)
	<i>Survival</i>	125 mph (201 km/h)
Temperature	<i>Operational</i>	-40° to 140° F (-40° to 60° C)
	<i>Survival</i>	-50° to 160° F (-46° to 71° C)
Rain	<i>Operational</i>	½ "/hr (1.27 cm/hr)
	<i>Survival</i>	2" /hr (5.08 cm/hr)
Ice	<i>Operational</i>	-----
	<i>Survival</i>	½ " (1.27 cm) radial



# AGHAZ

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