

Electrical

| | | |
|---|-----------------|-------------------------------------|
| Antenna Size | | 3.8 M (12.5 ft) |
| 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 (± 0.2 dB) | <i>Receive</i> | 42.3 dBi |
| | <i>Transmit</i> | 46.5 dBi |
| Feed Type | | Linear |
| 3 dB Beamwidth | <i>Receive</i> | 1.29° |
| | <i>Transmit</i> | 0.83° |
| Antenna Noise Temperature | | |
| 10° elevation | | 30° K |
| 20° elevation | | 22° K |
| 30° elevation | | 22° K |
| Cross-Pol Isolation (Linear) | | > 30dB (on axis) |
| Side Lobe Envelope, Co-Pol Tx (dB) | | |
| 100 λ /D $\theta \leq 20^\circ$ | | 29-25 Log θ dBi |
| 20° < $\theta \leq 26.3^\circ$ | | -3.5 dBi |
| 26.3 < $\theta \leq 48^\circ$ | | 32-25 Log θ 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 |



AGHAZCOM

P.O. Box 1796, 117 - Gulshan-E-Iqbal
Pir Wadhi Road, Rawalpindi, Pakistan

Phone (92-51) 5473625

Fax (92-51) 5462087

Email: aghaz@comsats.net.pk