

XXXXX Pol Panel Antenna 698-960/2×1710-2690/2×1710-2690MHz 65°/32°/32°/32°/32° 16/19/19 dBi 2°-12° Replaceable RET

Electrical Specifications

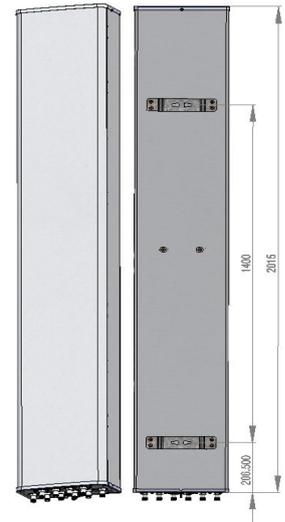
| Frequency Range (MHz): | 698-960(R1) | | | 1710-2690(Y1,Y2) | | | 1710-2690(Y3,Y4) | | |
|--|--|--------------|--------------|------------------|---------------|---------------|------------------|---------------|---------------|
| | 698-806 | 806-880 | 880-960 | 1710 -1880 | 1880 -2170 | 2300 -2690 | 1710 -1880 | 1880 -2170 | 2300 -2690 |
| Gain (dBi): | 15.5 ±0.5 | 15.7 ±0.5 | 16.0 ±0.5 | 16.3 ±0.5 | 17.8 ±0.5 | 18.5 ±0.5 | 16.0 ±0.5 | 17.5 ±0.5 | 18.1 ±0.5 |
| Return Loss (dB): | >14 (VSWR<1.5) | | | | | | | | |
| Polarization: | ±45° | | | | | | | | |
| Horizontal Beam Pointing (°): | | | | ±29 | ±25 | ±23 | ±29 | ±25 | ±23 |
| Horizontal 3dB Beamwidth (°): | 68 | 67 | 64 | 35 | 29 | 25 | 35 | 29 | 25 |
| Vertical 3dB Beamwidth (°): | 12.6 | 11 | 10 | 11.5 | 9.8 | 8.3 | 11.5 | 10.1 | 8.5 |
| Electrical Downtilt (°): | 2-12 Independently Continuously Adjustable | | | | | | | | |
| 1 st Upper Sidelobe Suppression(dB) : | 20 | 21 | 20 | 16 | 17 | 16 | 16 | 17 | 16 |
| Front to Back Ratio (dB): | 27 | 29 | 28 | 25 | 27 | 28 | 25 | 26 | 29 |
| Polarization Isolation (dB): | >25 | | | | | | | | |
| Interband Isolation (dB): | >25(R1//Y1, Y2//Y3,Y4) | | | | | | | | |
| Max. Power Per Port (W): | 250 | | | 200 | | | 200 | | |
| Total Power for the Antenna (W): | 1000 | | | | | | | | |
| Intermodulation IM3 (dBc): | <-150 (2×43 dBm) | | | | | | | | |
| Impedance (ohm): | 50 | | | | | | | | |
| Lightning Protection: | DC Grounded | | | | | | | | |
| Connector Type: | 10×4.3-10 Female | | | | | | | | |

BASTA Electrical Specification

| Frequency Range(MHz): | 698-960(R1) | | | 1710-2690(Y1,Y2) | | | 1710-2690(Y3,Y4) | | |
|---|-----------------------------|-----------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | 698-806 | 806-880 | 880-960 | 1710 -1880 | 1880 -2170 | 2300 -2690 | 1710 -1880 | 1880 -2170 | 2300 -2690 |
| Average Gain by all Beam Tilts(dBi): | 15.3 | 15.5 | 15.7 | 15.9 | 17.4 | 17.8 | 15.7 | 17.1 | 17.5 |
| Gain by all Beam Tilts Tolerance(dB): | ±0.9 | ±0.4 | ±0.6 | ±0.5 | ±1.1 | ±1.2 | ±0.6 | ±1.2 | ±0.9 |
| Average Gain by Beam Tilt (dBi): | 2° 154 7° 153 12° 152 | 2° 156 7° 155 12° 153 | 2° 158 7° 157 12° 156 | 2° 160 7° 159.1 12° 15.7 | 2° 176 7° 174 12° 16.7 | 2° 18.1 7° 17.7 12° 17.2 | 2° 15.8 7° 15.7 12° 15.4 | 2° 17.4 7° 17.2 12° 16.3 | 2° 17.8 7° 17.4 12° 16.8 |
| 3dB Horizontal Beamwidth Tolerance(°): | ±3.0 | ±3.2 | ±3.6 | ±2.4 | ±3.8 | ±2.2 | ±2.7 | ±4.0 | ±2.1 |
| 3dB Vertical Beamwidth Tolerance(°): | ±1.0 | ±0.9 | ±0.9 | ±1.3 | ±1.2 | ±0.9 | ±1.8 | ±1.7 | ±1.5 |
| Upper Side Lobe Suppression, Peak to 20°(dB): | 18 | 20 | 18 | 15 | 16 | 15 | 15 | 16 | 15 |
| Front to back Total Power at 180° ±30°(dB): | 26 | 28 | 27 | 24 | 26 | 27 | 24 | 26 | 28 |
| CPR at Boresight(dB): | 21 | 24 | 22 | 13 | 14 | 11 | 13 | 14 | 11 |
| CPR at Sector(dB): | 12 | 9 | 7 | | | | | | |

Mechanical Data

| | |
|----------------------------------|--|
| Antenna Dimensions (mm): | 2015×339×169 |
| Packing Dimensions (mm): | 2335×405×240 |
| Antenna Net Weight/Bracket (kg): | 31/5.7 |
| Antenna Gross Weight (kg): | 42 |
| Radome Material: | Fiberglass |
| Pipe OD (mm): | 70-114 |
| Mounting Kits (Included): | BA.K.04.00011, Adjustable Downtilt 0°-8° |



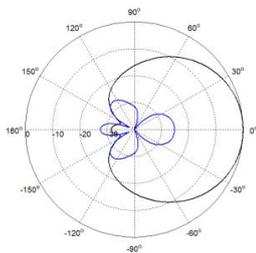
Environmental Ratings

| | |
|----------------------------|---|
| Humidity: | 95%RH@+30°C |
| Temperature (°C): | -55~+70 |
| Wind Load @150 km/h (N): | Frontal/Lateral/Rearside: 1221/363/1425 |
| Max. Wind velocity (km/h): | 200 |

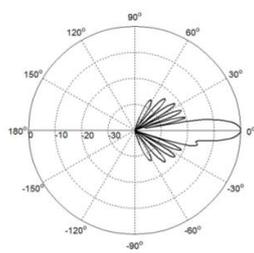
Internal RET Specifications

| | |
|-----------------------------------|---|
| RET Type: | Replaceable RET |
| RET protocol: | AISG 2.0 /3 GPP |
| Input voltage range(V): | 10-30 DC |
| Power consumption(W): | < 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V) |
| Adjustment time (full range) (s): | < 120 (typically, depending on antenna type) |
| RET connector: | 1 pair of AISG 5 pin male & female |
| Pin assignment according AISG: | 8 pin circular connector conforming to IEC 60130-9 - Ed. 3.0 |
| Lightning protection (kA): | 5 (8/20 μs Differential mode), 8 (8/20 μs Common mode) |

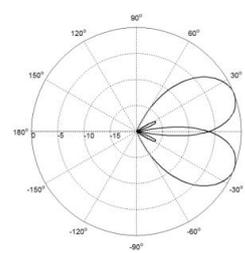
Typical Patterns



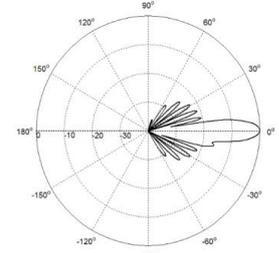
Azimuth (Low band)



Elevation (Low band)

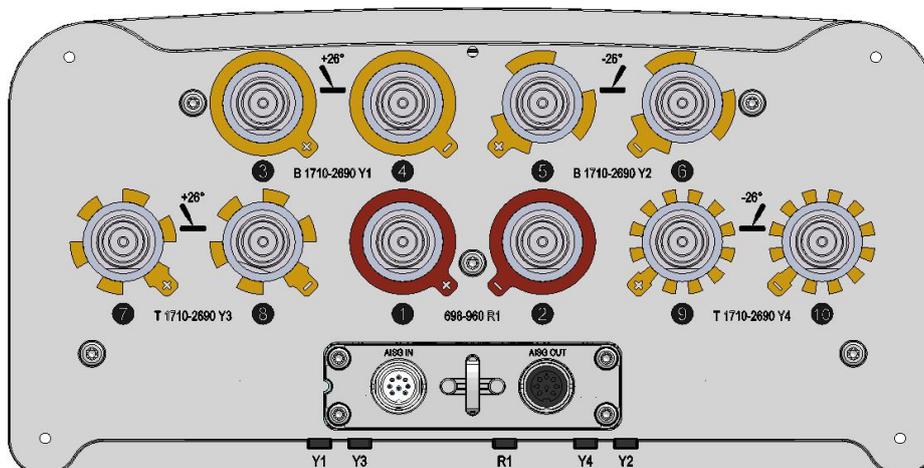


Azimuth (Dual Beam)



Elevation (Dual Beam)

Bottom View



Correlation Table

| Frequency range | Array | Connector | RET S/N |
|-----------------|-------|-----------|---------------|
| 698-960 MHz | R1 | 1-2 | BRxxx.....1R1 |
| 1710-2690 MHz | Y1 | 3-4 | BRxxx.....2Y1 |
| 1710-2690 MHz | Y2 | 5-6 | BRxxx.....3Y2 |
| 1710-2690 MHz | Y3 | 7-8 | BRxxx.....4Y3 |
| 1710-2690 MHz | Y4 | 9-10 | BRxxx.....5Y4 |

