

**XXX Pol Panel Antenna 2×698-960/1710-2690MHz 65°/65° 17/17.5dBi 2°-12°/2°-12° Replaceable RET****Electrical Specifications**

| Frequency Range (MHz):                     | 698-960(R1,R2)                             |          |          | 1710-2690(Y1)                              |           |           |
|--|--|----------|----------|--|-----------|-----------|
|  | 698-806                                    | 806-880  | 880-960  | 1710-2170                                  | 2300-2490 | 2490-2690 |
| Gain (dBi):                                | 15.5±0.5                                   | 16.0±0.5 | 16.5±0.5 | 16.3±0.5                                   | 17.3±0.5  | 17.0±0.5  |
| Return Loss (dB):                          | >14 (VSWR<1.5)                             |          |          |  |           |           |
| Polarization:                              | ±45°                                       |          |          |  |           |           |
| Horizontal 3dB beamwidth (°):              | 69   | 64       | 60       | 69   | 62        | 58        |
| Vertical 3dB beamwidth (°):                | 8.5  | 7.0      | 6.5      | 7.5  | 6.0       | 5.3       |
| Electrical Downtilt (°):                   | 2-12 Independently Continuously Adjustable |          |          | 2-12 Independently Continuously Adjustable |           |           |
| RET Type:                                  | Cascade SRET, AISG 2.0, Upgradeable        |          |          |  |           |           |
| 1 <sup>st</sup> Upper Sidelobe Level (dB): | 15   | 15       | 15       | 15   | 15        | 15        |
| Front to Back Ratio @180±30°(dB):          | 22   | 23       | 24       | 25   | 25        | 25        |
| Cross Polar Ratio 0° (dB):                 | 15   | 15       | 15       | 15   | 15        | 15        |
| Intraband Isolation (dB):                  | >25  |          |          |  |           |           |
| Interband Isolation (dB):                  | >28  |          |          |  |           |           |
| Max. Power Per Port (W):                   | 250  |          |          | 200  |           |           |
| Intermodulation IM3 (dBc):                 | <-150 (2×43 dBm)                           |          |          |  |           |           |
| Impedance (ohm):                           | 50   |          |          |  |           |           |
| Lightning Protection:                      | DC Grounded                                |          |          |  |           |           |
| Connector Type:                            | 6×4.3-10 Female                            |          |          |  |           |           |

**Mechanical Data**

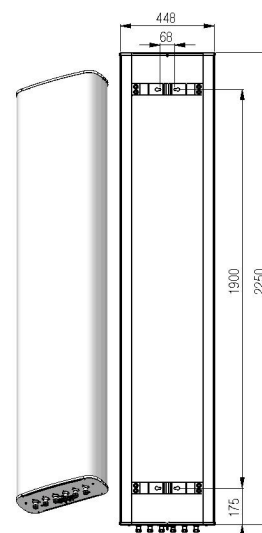
|                                  |   |
|----------------------------------|---|
| Antenna Dimensions (mm):         | 2250×448×185                                |
| Packing Dimensions (mm):         | 2520×535×280                                |
| Antenna Net Weight/Bracket (kg): | 34/5.9                                      |
| Antenna Gross Weight (kg):       | 45.5  |
| Radome Material:                 | Fiberglass                                  |
| Pipe OD (mm):                    | 50-115                                      |
| Mounting Kits (Included):        | BA.K.04.00069291, Adjustable Downtilt 0°-8° |

**Environmental Ratings**

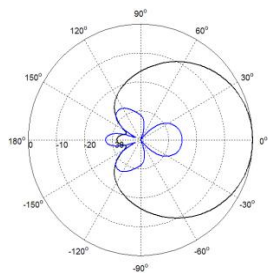
|                          |  |
|--------------------------|--|
| Humidity:                | 95%RH@+30°C                            |
| Temperature (°C):        | -50~+60                                |
| Wind Load @150 km/h (N): | Frontal/Lateral/Rearside: 978/244/1160 |
| Max. Wind velocity(km/h) | 200                                    |

**Internal RET Specifications**

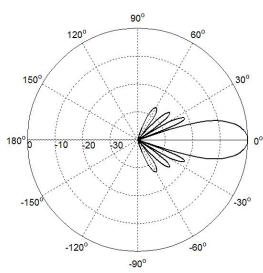
|                                   |   |
|-----------------------------------|---|
| RET type:                         | Replaceable RET   |
| RET protocol:                     | AISG2.0 /3GPP   |
| Input voltage range(V):           | 10-30 DC  |
| Power consumption(W):             | < 5 (motor activated , single RET)<br>< 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)                                  |



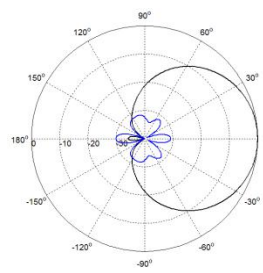
## Typical Patterns



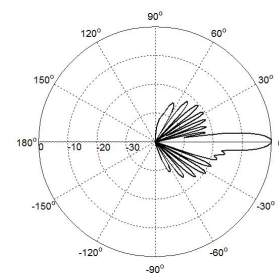
Azimuth(Low Band)



Elevation(Low Band)



Azimuth(High Band)



Elevation(High Band)

## Correlation Table

| Frequency range | Array | Connector | RET S/N       |
|-----------------|-------|-----------|---------------|
| 698– 960MHz     | R1    | 1-2       | BRxxx.....1R1 |
| 698– 960MHz     | R2    | 3-4       | BRxxx.....2R2 |
| 1710–2690MHz    | Y1    | 5-6       | BRxxx.....3Y1 |

