

6133100

Single Band | Panel Antenna | X-Pol | 30° | 18.8 dBi | Variable Tilt

- Single band, X-Pol, variable tilt, panel antenna with 2 connectors
- Variable electrical tilt 0-10°
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0
- Single RET module to control all tilt angles, fully inserted inside the antenna (field replaceable)




| Ordering Options | | Model Number | |
|--|-----------------|---|----------------------|
| Manual Electrical Tilt, can be upgraded to RET | | 6133100 | |
| Remote Electrical Tilt AISG v1.1 | | 6133100A | |
| Remote Electrical Tilt 3GPP/AISG v2.0 | | 6133100G | |
| Electrical Characteristics | | 1710-2690 MHz | |
| Frequency Bands | | 1710-1880 MHz | 1920-2170 MHz |
| Polarisation | | ±45° | |
| Horizontal Beamwidth | | 32° | 29° |
| Vertical Beamwidth | | 14.1° | 10.4° |
| Gain | | 17.5 dBi | 18.1 dBi |
| Electrical Downtilt | | 0-10° | |
| Impedance | | 50Ω | |
| VSWR | | < 1.5 | |
| Upper Sidelobe Suppression | | > 18 dB | |
| Front-to-Back Ratio | | > 30 dB | |
| Isolation Between Ports | 0°-2° Tilt | > 30 dB | |
| | All Other Tilts | > 28 dB | |
| IM3 (2x20W carrier) | | < -153 dBc | |
| Input Power | | (2x) 250 W | |
| Total Number of Connectors | | Antenna has 2 connectors located at the bottom | |
| Connectors Per Band, Type | 1710-2690 MHz | 2 Connectors / 7/16-DIN Female / Long Neck / Yellow Rings | |
| Diplexed | | No | |
| Environmental Characteristics | | | |
| Operating Temperature | | -40° to +60° C (-40° to +140° F) | |
| Operating Humidity Range | | 5%-95% | |
| Environmental | | ETS 300 019 | |
| RoHS Compliant | | Yes | |
| Mechanical Characteristics | | | |
| Shroud Material / Colour | | Outdoor Plastic / Grey RAL7035 | |
| Reflector Plate Material | | Aluminium | |
| Dimensions (Length x Width x Depth) | | 812 x 305 x 162 mm | 32.0 x 12.0 x 6.4 in |
| Weight without Mounting Brackets | | 8.5 kg | 18.7 lbs |
| Operational Wind Speed | | 160 km/hr | 100 mph |
| Survival Wind Speed | | 200 km/hr | 124 mph |
| Wind load at 160 km/hr (100 mph) | Front | 255 N | 57.3 lbf |
| | Side | 152 N | 34.2 lbf |
| | Rear | 270 N | 60.7 lbf |



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| Electrical Downtilt Control | | | | |
|--|--|---|--------------------------------|----------------|
| Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s). | | | | |
| Manual Electrical Tilt (MET) Control | A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna. | | | |
| Remote Electrical Tilt (RET) Control | The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) inserted in the bottom of the antenna. A single module individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override). | | | |
| RET Module | The RET module is factory installed and does not need to be ordered separately. | | | |
| | Part Number for AISG v1.1 protocol: | MDCU-A0000 | One unit installed in 6133100A | |
| | Part Number for 3GPP/AISG v2.0 protocol: | MDCU-G0000 | One unit installed in 6133100G | |
| Important Installation Instructions  | In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna. | | | |
| | Do not install the antenna with the connectors facing upward. | | | |
| Mounting Options | Part Number | Image | Fits Pipe Diameter | Weight |
| 2-Point Mounting Bracket Kit (Included) | 0900181/00 |  | 48-115 mm 1.9-4.5 in | 3.4 kg 7.5 lbs |
| 2-Point Downtilt Bracket Kit [0°-10°] (Included) | 0900397/00 |  | ---- | 3.0 kg 6.6 lbs |

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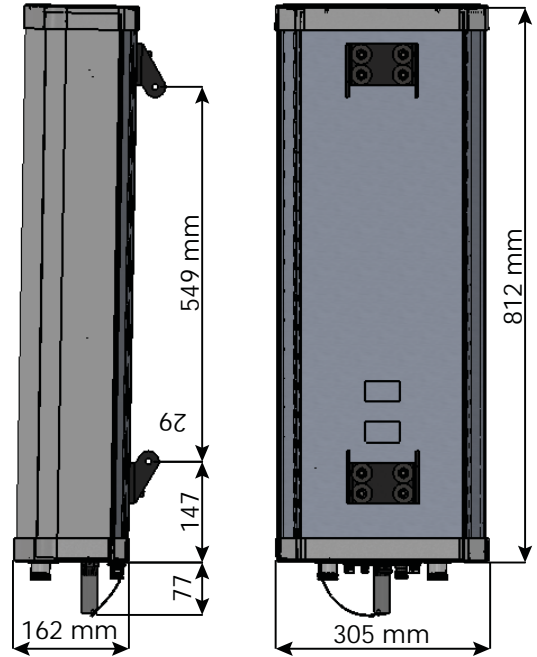
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Bottom View of Antenna



Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colors are the same as the connectors.

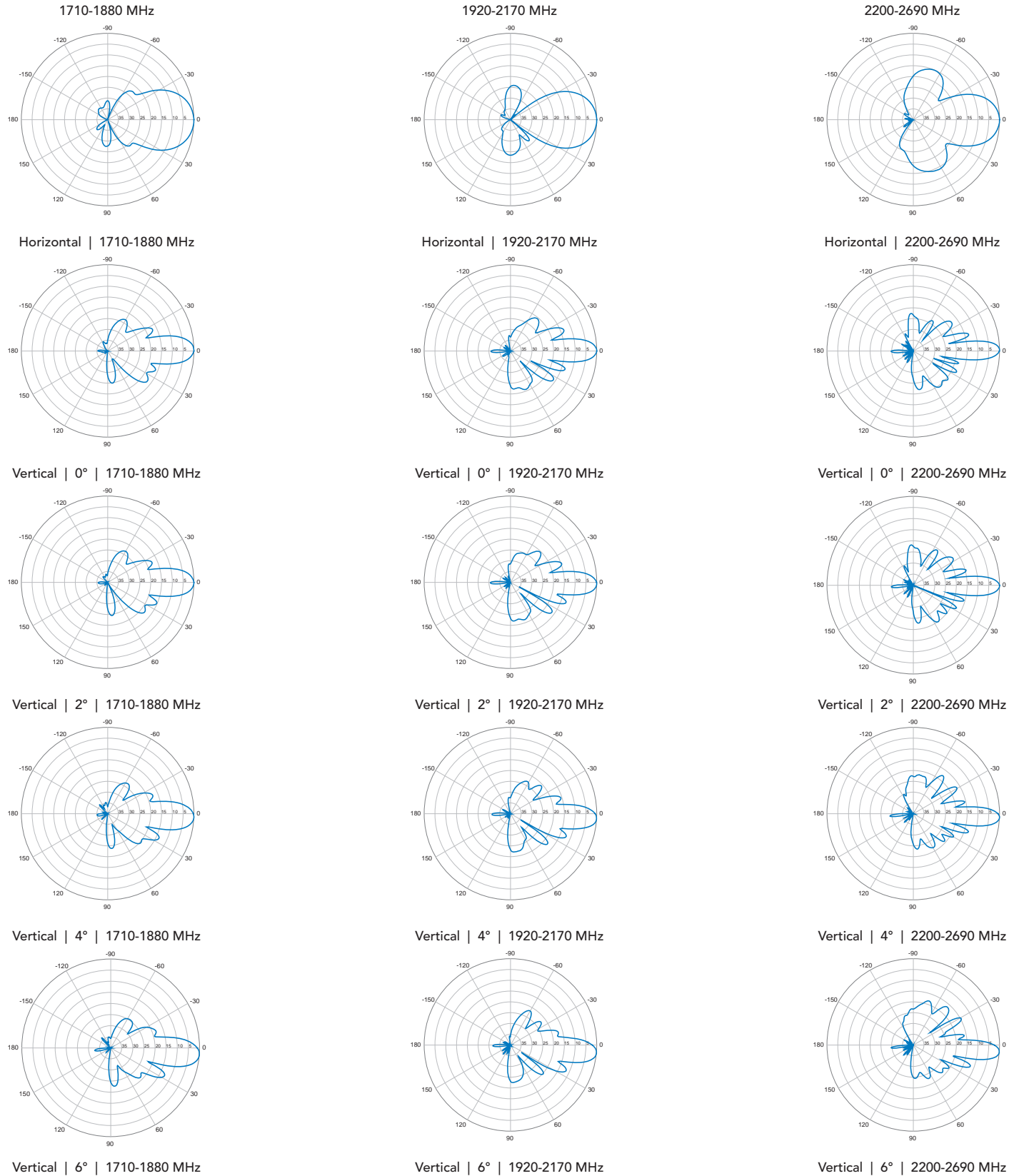
Dimensions



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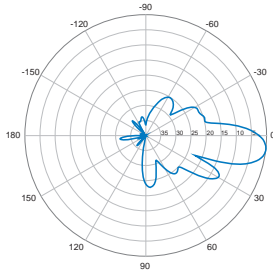


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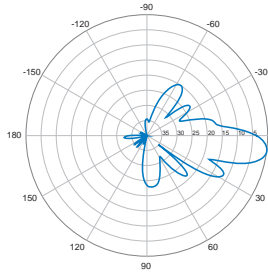
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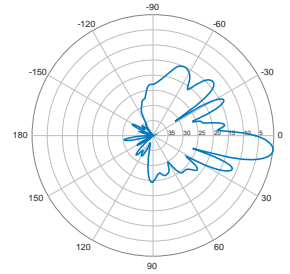
1710-1880 MHz



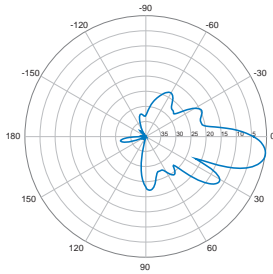
1920-2170 MHz



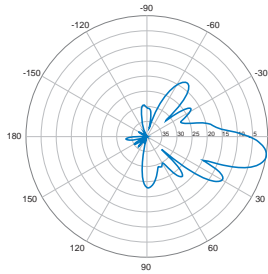
2200-2690 MHz



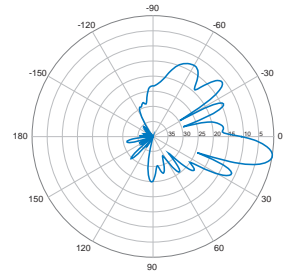
Vertical | 8° | 1710-1880



Vertical | 8° | 1920-2170



Vertical | 8° | 2200-2690 MHz



Vertical | 10° | 1710-1880



Vertical | 10° | 1920-2170



Vertical | 10° | 2200-2690 MHz

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