









5780470

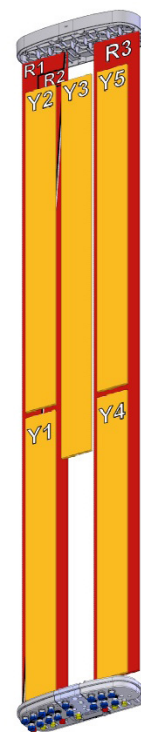
5780470G 5780470Dx

Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm



- Octo band antenna, dual polarisation, 16 connectors
- Integra compatible - ability to upgrade and recycle, saving 50% carbon emission
- Independent tilt on each band 2-10° / 2-10° / 2-12° / 2-12° / 2-12° / 2-12° / 2-12° / 2-12°
- MET and RET versions, 3GPP/AISG2.0, in multiple single RET (multiple device type1) or in Multi-RET (device type 17, with firmware above MD3.10).
- Our patented, RET module controlling all tilt angles, fully inserted inside the antenna (field replaceable).
- 5G optimal integration with optional mMIMO & 8T8R Hybrid Kits (compatibility list available on request).

| PRODUCT OVERVIEW | Frequency Range (MHz) | 698-803 | 880-960 | 698-960 | 1427-2690 | 1427-2690 | 1427-2690 | 1427-2690 | 1427-2690 |
|------------------|-------------------------|--|--|--|--|--|---|--|--|
| | Array |  R1 |  R2 |  R3 |  Y1 |  Y2 |  Y3 |  Y4 |  Y5 |
| | Connector | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 |
| | Polarization | XPOL | XPOL | XPOL | XPOL | XPOL | XPOL | XPOL | XPOL |
| | Azimuth Beamwidth (avg) | 65° | 65° | 65° | 65° | 65° | 65° | 65° | 65° |
| | Electrical Downtilt | 2-10° | 2-10° | 2-12° | 2-12° | 2-12° | 2-12° | 2-12° | 2-12° |
| | Dimensions | 2697 x 472 x 205 mm | | | | | | | |



ORDERING OPTIONS

Select from the different options listed below

| SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL | SELECT ACTUATOR | SELECT CONNECTOR TYPE | ANTENNA MODEL NUMBER |
|--|----------------------------------|-----------------------|----------------------|
| Manual Electrical Tilt (MET) | --- | 4.3-10 Female | 5780470 |
| Remote Electrical Tilt (RET) AISG v2.0 / 3GPP | Multi-Device Control Unit (MDCU) | 4.3-10 Female | 5780470G |
| | Multi-Device Dual Unit (MDDU) | 4.3-10 Female | 5780470Dx* |

*Pre-commissioned configuration; Contact Amphenol for further details.



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5780470G 5780470Dx

Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL SPECIFICATIONS Filtered Low Band

R1

| | | |
|---|----------------|----------------------------|
| Frequency Range | MHz | 698-803 |
| Polarization | --- | $\pm 45^\circ$ |
| Gain | Over all Tilts | dBi |
| Azimuth Beamwidth | degrees | 15.3 ± 0.4 |
| Elevation Beamwidth | degrees | $74.8^\circ \pm 4.1^\circ$ |
| Electrical Downtilt | degrees | $8.6^\circ \pm 0.7^\circ$ |
| Impedance | Ohms | $2^\circ - 10^\circ$ |
| VSWR (Return Loss) | --- (dB) | 50 |
| Passive Intermodulation 3rd Order for 2 x 20W Carriers | dBc | $< 1.5 (>14)$ |
| Front-to-Back Ratio, Total Power, $\pm 30^\circ$ | dB | < -153 |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 23.5 |
| Cross Polar Discrimination (XPD) Sector Edges ($\pm 60^\circ$) | dB | > 17.9 |
| Maximum Effective Power Per Port | Watts | > 9.8 |
| Inter/Intra Cluster Isolation | dB | 250 W |
| | | > 25 |

All parameters are compliant with BASTA revision V11.1

ELECTRICAL SPECIFICATIONS Filtered Low Band

R2

| | | |
|---|----------------|----------------------------|
| Frequency Range | MHz | 880-960 |
| Polarization | --- | $\pm 45^\circ$ |
| Gain | Over all Tilts | dBi |
| Azimuth Beamwidth | degrees | 16.3 ± 0.4 |
| Elevation Beamwidth | degrees | $59.2^\circ \pm 4.9^\circ$ |
| Electrical Downtilt | degrees | $7.1^\circ \pm 0.4^\circ$ |
| Impedance | Ohms | $2^\circ - 10^\circ$ |
| VSWR (Return Loss) | --- (dB) | 50 |
| Passive Intermodulation 3rd Order for 2 x 20W Carriers | dBc | $< 1.5 (>14)$ |
| Front-to-Back Ratio, Total Power, $\pm 30^\circ$ | dB | < -153 |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 23.7 |
| Cross Polar Discrimination (XPD) Sector Edges ($\pm 60^\circ$) | dB | > 20.1 |
| Maximum Effective Power Per Port | Watts | > 7.5 |
| Inter/Intra Cluster Isolation | dB | 250 W |
| | | > 25 |

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5780470G 5780470Dx

Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL SPECIFICATIONS Ultra Low Band

R3

| | | | | | | |
|---|----------------|----------|--------------|--------------|--------------|--------------|
| Frequency Range | | MHz | 698-960 | | | |
| | | MHz | 698-806 | 790-862 | 824-894 | 880-960 |
| Polarization | | --- | ±45° | | | |
| Gain | Over all Tilts | dBi | 15.3 ± 0.4 | 16.2 ± 0.4 | 16.4 ± 0.6 | 16.6 ± 0.5 |
| Azimuth Beamwidth | | degrees | 74.3° ± 3.8° | 69.1° ± 4.1° | 65.6° ± 5.3° | 60.1° ± 3.9° |
| Elevation Beamwidth | | degrees | 8.3° ± 0.6° | 7.5° ± 0.5° | 7.2° ± 0.4° | 6.6° ± 0.4° |
| Electrical Downtilt | | degrees | 2°-12° | | | |
| Impedance | | Ohms | 50 | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | |
| Passive Intermodulation | | dBc | < -153 | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 23.7 | > 23.3 | > 23.8 | > 25.1 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 17.0 | > 17.6 | > 17.2 | > 15.8 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | dB | > 9.1 | > 7.3 | > 7.4 | > 7.2 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | |

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ELECTRICAL SPECIFICATIONS MEGA Wide Band

Y1

| | | | | | | | |
|---|----------------|----------|--------------|--------------|--------------|--------------|--------------|
| Frequency Range | | MHz | 1427-2690 | | | | |
| | | MHz | 1427-1518 | 1695-1880 | 1920-2180 | 2300-2500 | 2490-2690 |
| Polarization | | --- | ±45° | | | | |
| Gain | Over all Tilts | dBi | 15.8 ± 0.4 | 16.3 ± 0.3 | 17.0 ± 0.4 | 16.9 ± 0.4 | 17.0 ± 0.3 |
| Azimuth Beamwidth | | degrees | 70.2° ± 3.9° | 68.9° ± 2.8° | 66.8° ± 3.0° | 66.3° ± 2.7° | 63.1° ± 3.4° |
| Elevation Beamwidth | | degrees | 9.1° ± 0.6° | 7.4° ± 0.5° | 6.4° ± 0.6° | 5.6° ± 0.3° | 5.1° ± 0.3° |
| Electrical Downtilt | | degrees | 2°-12° | | | | |
| Impedance | | Ohms | 50 | | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | | |
| Passive Intermodulation | | dBc | < -153 | | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 23.7 | > 27.7 | > 27.8 | > 27.0 | > 27.3 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 15.2 | > 16.2 | > 16.0 | > 16.0 | > 14.6 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | dB | > 6.6 | > 7.2 | > 9.2 | > 6.9 | > 6.9 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | | |

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5780470G 5780470Dx

Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL SPECIFICATIONS MEGA Wide Band

Y2

| Frequency Range | | MHz | 1427-2690 | | | | |
|--|----------------|----------|--------------|--------------|--------------|--------------|--------------|
| | | MHz | 1427-1518 | 1695-1880 | 1920-2180 | 2300-2500 | 2490-2690 |
| Polarization | | --- | ±45° | | | | |
| Gain | Over all Tilts | dBi | 15.8 ± 0.4 | 16.3 ± 0.4 | 16.9 ± 0.4 | 17.0 ± 0.4 | 17.2 ± 0.3 |
| Azimuth Beamwidth | | degrees | 69.0° ± 4.5° | 66.3° ± 4.5° | 66.8° ± 4.0° | 63.8° ± 3.9° | 63.4° ± 5.5° |
| Elevation Beamwidth | | degrees | 8.8° ± 0.4° | 7.2° ± 0.5° | 6.3° ± 0.6° | 5.5° ± 0.3° | 5.1° ± 0.3° |
| Electrical Downtilt | | degrees | 2°-12° | | | | |
| Impedance | | Ohms | 50 | | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | | |
| Passive Intermodulation | | dBc | < -153 | | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 23.8 | > 27.3 | > 28.0 | > 27.5 | > 28.3 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 16.4 | > 18.5 | > 18.4 | > 17.1 | > 15.0 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | dB | > 9.4 | > 6.6 | > 8.6 | > 6.5 | > 6.3 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | | |

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ELECTRICAL SPECIFICATIONS MEGA Wide Band

Y3

| Frequency Range | | MHz | 1427-2690 | | | | |
|--|----------------|----------|--------------|--------------|--------------|--------------|--------------|
| | | MHz | 1427-1518 | 1695-1880 | 1920-2180 | 2300-2500 | 2490-2690 |
| Polarization | | --- | ±45° | | | | |
| Gain | Over all Tilts | dBi | 15.6 ± 0.4 | 16.9 ± 0.5 | 17.3 ± 0.5 | 17.0 ± 0.2 | 17.5 ± 0.3 |
| Azimuth Beamwidth | | degrees | 72.5° ± 3.6° | 62.1° ± 3.6° | 61.9° ± 3.3° | 62.1° ± 3.1° | 62.1° ± 4.2° |
| Elevation Beamwidth | | degrees | 7.5° ± 0.4° | 6.2° ± 0.4° | 5.4° ± 0.4° | 4.9° ± 0.3° | 4.4° ± 0.3° |
| Electrical Downtilt | | degrees | 2°-12° | | | | |
| Impedance | | Ohms | 50 | | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | | |
| Passive Intermodulation | | dBc | < -153 | | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 27.9 | > 29.9 | > 28.3 | > 27.5 | > 26.7 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 14.8 | > 15.1 | > 15.5 | > 15.4 | > 16.3 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | | > 9.5 | > 8.8 | > 7.9 | > 7.7 | > 8.4 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | | |

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ELECTRICAL SPECIFICATIONS MEGA Wide Band

Y4

| | | | | | | | |
|---|----------------|----------|--------------|--------------|--------------|--------------|--------------|
| Frequency Range | | MHz | 1427-2690 | | | | |
| | | MHz | 1427-1518 | 1695-1880 | 1920-2180 | 2300-2500 | 2490-2690 |
| Polarization | | --- | ±45° | | | | |
| Gain | Over all Tilts | dBi | 15.7 ± 0.4 | 16.4 ± 0.4 | 16.9 ± 0.4 | 16.8 ± 0.3 | 17.2 ± 0.3 |
| Azimuth Beamwidth | | degrees | 69.1° ± 4.1° | 68.9° ± 3.7° | 67.1° ± 3.9° | 66.0° ± 3.2° | 62.0° ± 5.5° |
| Elevation Beamwidth | | degrees | 9.1° ± 0.7° | 7.4° ± 0.5° | 6.3° ± 0.6° | 5.7° ± 0.3° | 5.1° ± 0.2° |
| Electrical Downtilt | | degrees | 2°-12° | | | | |
| Impedance | | Ohms | 50 | | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | | |
| Passive Intermodulation | | dBc | < -153 | | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 23.6 | > 27.0 | > 28.8 | > 28.2 | > 25.9 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 14.6 | > 15.7 | > 14.8 | > 15.2 | > 15.3 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | dB | > 8.3 | > 6.2 | > 8.6 | > 7.0 | > 6.5 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | | |

All parameters are compliant with BASTA revision V11.1

ELECTRICAL SPECIFICATIONS MEGA Wide Band

Y5

| | | | | | | | |
|---|----------------|----------|--------------|--------------|--------------|--------------|--------------|
| Frequency Range | | MHz | 1427-2690 | | | | |
| | | MHz | 1427-1518 | 1695-1880 | 1920-2180 | 2300-2500 | 2490-2690 |
| Polarization | | --- | ±45° | | | | |
| Gain | Over all Tilts | dBi | 15.7 ± 0.4 | 16.4 ± 0.4 | 16.9 ± 0.4 | 16.8 ± 0.2 | 17.2 ± 0.4 |
| Azimuth Beamwidth | | degrees | 70.6° ± 3.5° | 68.3° ± 3.9° | 67.6° ± 3.0° | 63.8° ± 3.5° | 62.5° ± 4.9° |
| Elevation Beamwidth | | degrees | 8.8° ± 0.4° | 7.2° ± 0.5° | 6.3° ± 0.6° | 5.4° ± 0.3° | 5.1° ± 0.3° |
| Electrical Downtilt | | degrees | 2°-12° | | | | |
| Impedance | | Ohms | 50 | | | | |
| VSWR (Return Loss) | | --- (dB) | < 1.5 (>14) | | | | |
| Passive Intermodulation | | dBc | < -153 | | | | |
| Front-to-Back Ratio, Total Power, ±30° | | dB | > 24.6 | > 26.1 | > 28.2 | > 28.5 | > 26.7 |
| Upper Sidelobe Suppression, Peak to 20° | | dB | > 15.3 | > 18.0 | > 18.1 | > 17.2 | > 15.7 |
| Cross Polar Discrimination (XPD) Sector Edges (±60°) | | dB | > 6.7 | > 6.4 | > 7.5 | > 7.0 | > 6.0 |
| Maximum Effective Power Per Port | | Watts | 200 W | | | | |
| Inter/Intra Cluster Isolation | | dB | > 25 | | | | |

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Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical downtilt for each band can be controlled separately.

| | |
|--------------------------------------|---|
| 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 color. The manual tilt 'override' function is always available with no need to remove the physical RET motor. |
| Remote Electrical Tilt (RET) Control | The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. <i>See details below and refer to the ordering options to see which actuators are available with this particular antenna.</i> A single actuator 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. |

RET ACTUATOR

Amphenol's **RET-READY** antennas are delivered with the RET Actuator already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

| | |
|---------------------|---|
| RET-READY ACTUATORS | Multi-Device Control Unit (MDCU). The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. <i>Refer to the ORDERING OPTIONS for availability with this model.</i> |
| | Multi-Device Dual Unit (MDDU). The MDDU allows two separate RET Controllers to independently drive the RETs in antennas with factory embedded motors (for antenna sharing or two technologies). The MDDU is factory installed. <i>Refer to the ORDERING OPTIONS for availability with this model.</i> |

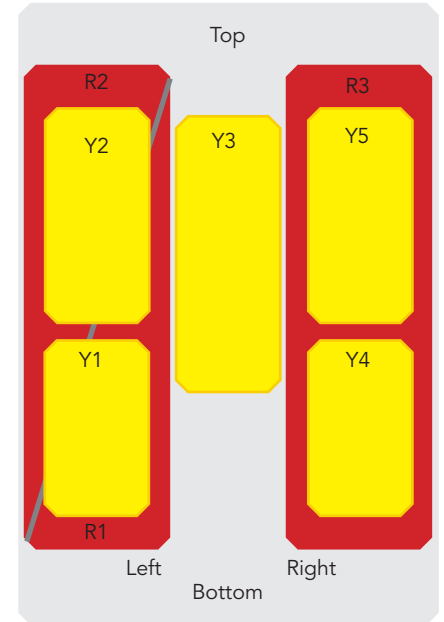
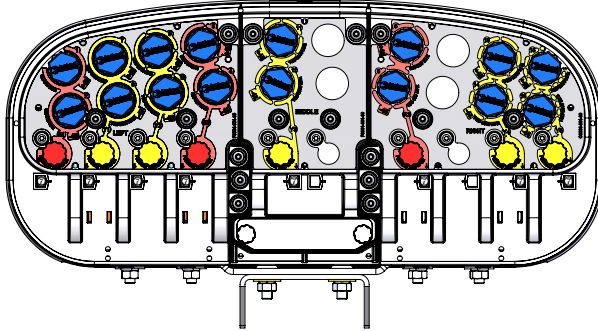
| | | |
|-------------------------------|---------------------------|--|
| Number of RET-READY Actuators | | One per antenna |
| Input Voltage | | +10 to +30 V |
| Power Consumption | Idle State (AISG P1) | 0.5 W |
| | High Power Mode (AISG P2) | 3 W |
| Protocol | | 3GPP/AISG 2.0 |
| Tilt Change Duration | | Less than 15 seconds, typical (may vary dependent on antenna type and outdoor temperature) |
| Precision | | ±0.5° |
| Tilt Change Capability | | 50,000 minimum |
| RET Interface | MDCU | One pair of AISG Male and Female (type IEC60130-9) |
| | MDDU | Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0) |
| Field Replaceable Unit | | Yes |

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Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm



| ARRAY LAYOUT | ARRAY | FREQUENCY | CONNECTOR | CONNECTOR TYPE |
|--------------|-------|-----------|-----------|----------------|
| | R1 | 698-803 | 1-2 | 4.3-10 Female |
| | R2 | 880-960 | 3-4 | 4.3-10 Female |
| | R3 | 698-960 | 5-6 | 4.3-10 Female |
| | Y1 | 1427-2690 | 7-8 | 4.3-10 Female |
| | Y2 | 1427-2690 | 9-10 | 4.3-10 Female |
| | Y3 | 1427-2690 | 11-12 | 4.3-10 Female |
| | Y4 | 1427-2690 | 13-14 | 4.3-10 Female |
| | Y5 | 1427-2690 | 15-16 | 4.3-10 Female |

Diagram shown at right depicts the view from the front of the antenna.
The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

| | | | |
|--|--|-----------------------------------|--|
| Length | | mm (in) | 2697 (106.1) |
| Width | | mm (in) | 472 (18.6) |
| Depth | | mm (in) | 205 (8.0) |
| Net Weight - Antenna Only | | kg (lbs) | 60 (132.2) |
| Mechanical Distance Between Mounting Points | | mm (in) | Refer to Diagram |
| Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients) | Calculation | km/h (mph) | 150 (93.2) |
| | Frontal | N (lbf) | 989 (222.3) |
| | Lateral | N (lbf) | 628 (141.2) |
| | Rearside | N (lbf) | 998 (224.4) |
| | Maximum | N (lbf) | 1830 (411.4) |
| Survival Wind Speed | | km/h (mph) | 240 (149) |
| Radome Color | | --- | Gray RAL7035 |
| Radome Material | | --- | Outdoor Fiberglass |
| Lightning Protection | | --- | Direct Ground |
| Shipping | Shipping Dimensions (Length x Width x Depth) | mm (in) | 2940 x 540 x 370 (115.7 x 21.2 x 14.5) |
| | Shipping Weight | kg (lbs) | 71 (156.5) |
| | Shipping Volume | m ³ (ft ³) | 0.587 (20.7) |

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Octo Band, 16-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ENVIRONMENTAL SPECIFICATIONS

| | | |
|----------------------------------|-----------|-----------------------------|
| Environmental Standard | --- | ETS 300 019 |
| Operating Temperature | ° C (° F) | -40° to +60° (-40° to 140°) |
| Product Environmental Compliance | --- | Product is RoHs Compliant |

ACCESSORIES

All accessories are ordered separately unless otherwise indicated

| ITEM | MODEL NUMBER | WEIGHT |
|---|--------------|------------------|
| Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) delivered as standard | O8464 | 3.4 kg (7.5 lbs) |
| Brackets for pole Ø70 to Ø150 mm (Ø2.8-Ø5.9 in) optional | O8465 | 3.9 kg (8.6 lbs) |
| Kit to add mechanical tilt (0° to 10°) to above brackets optional | 0900396/00 | 2.3 kg (5.1 lbs) |

INSTALLATION

Please read all installation notes before installing this product.

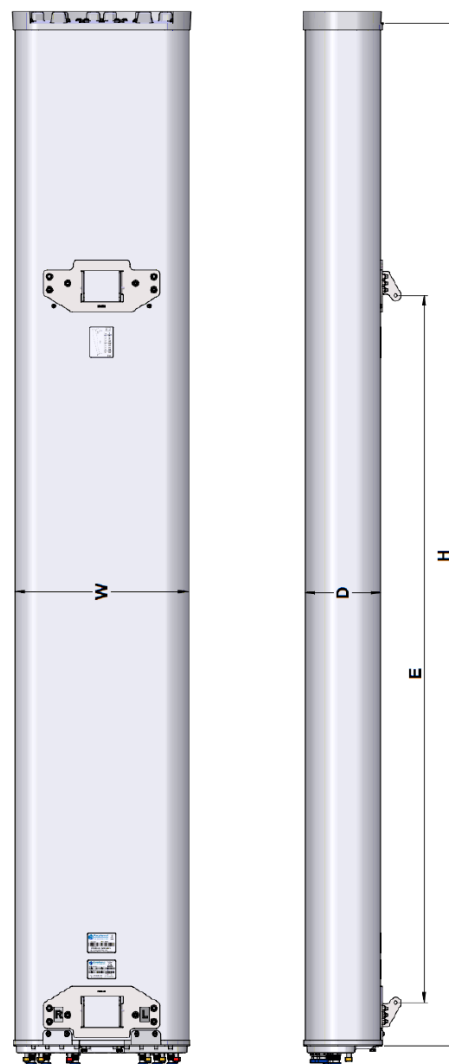


Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

MAIN DIMENSIONS

| | | | |
|----------------------------------|---|---------|--------------|
| Length | H | mm (in) | 2697 (106.1) |
| Width | W | mm (in) | 472 (18.6) |
| Depth | D | mm (in) | 205 (8.0) |
| Distance between mounting points | E | mm (in) | 1865 (73.5) |



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