# 48-Port Antenna

Amphenol ANTENNA SOLUTIONS

**PRODUCT OVERVIEW** 

Azimuth Beam-

Electrical Downtilt

width (avg)

Dimensions

698-803 | 880-960 | 698-960 | 1427-2180 | 1427-2180 | 2490-2690 | 1427-2690 | 2490-2690 MHz

|          |  |  |  |   | 1  | Integ   | jra compa                                    | atible      | 5G Ready   | 6          | 5°   | 2340                | mm |
|----------|--|--|--|---|--|---|--|-------------|------------|------------|------|---------------------|----|
| 579      | <b>798470-3</b><br>98470G-3 5798479<br>9and, 48-Port, 65°, 2   |  | Sector Ar  | itenna, Va  | riable Tilt                                      | , 2340 mr                                       | n  | (           | Integ      | کر<br>Ira  | (    | <b>TRI</b><br>Serie | 0  |
|          | <ul> <li>Octa band antenna,</li> <li>Integra compatible -</li> <li>Independent tilt on</li> <li>MET and RET versions</li> <li>Our patented, RET r</li> <li>5G optimal integrati</li> </ul> | - ability to u<br>each band 2<br>;, 3GPP/AISG<br>nodule cont | pgrade and<br>2-12° / 2-12°<br>2.0, in multip<br>trolling all ti | recycle, sav<br>? / 2-12° / 2-<br>ble single RE <sup>-</sup><br>It angles, fu | 12° / 2-12° /<br>Γ (multiple de<br>Illy inserted | / 2-12° / 2-1<br>evice type1) o<br>inside the a | 2°/ 2-12°<br>or in Multi-RE<br>antenna (fiel | d replaceab | ole).      | nware abov |      |                     | •  |
|          | Frequency Range<br>(MHz)   | 698-803  | 880-960  | 698-960   | 1427-2180  | 1427-2180                                       | 2490-2690                                    | 1427-2690   | 2490-2690  |            | Y1 1 | 72 Y3               |    |
| >        | Array  | <b>E</b> R1  | <b>R</b> 2   | <b>E</b> R3   | <b>B</b> 1                                       | <b>B</b> 2                                      | <b>Y</b> 1                                   | <b>Y</b> 2  | <b>Y</b> 3 |            |      |                     | ٠  |
| OVERVIEW | Connector  | 1-2  | 3-4  | 5-6   | 7-8  | 9-10  | 11-12  | 13-15       | 13-16      |            |      |                     |    |
| CT OVE   | Polarization   | XPOL   | XPOL   | XPOL  | XPOL   | XPOL  | XPOL   | XPOL        | XPOL       |            |      |                     |    |
| S        |  |  |  |   |  |   |  |             |            |            |      |                     |    |

65°

2-12°

65°

2-12°

65°

2-12°

65°

2-12°

### **ORDERING OPTIONS** Select from the different options listed below

65°

2-12°

65°

2-12°

65°

2-12°

65°

2-12°

2340 x Ø970 mm

| SELECT ELECTRICAL DOWNTILT<br>CONTROL & AISG PROTOCOL | SELECT<br>ACTUATOR                  | SELECT CONNECTOR<br>TYPE | ANTENNA MODEL<br>NUMBER |
|---|-------------------------------------|--------------------------|-------------------------|
| Manual Electrical Tilt (MET)                          |                                     | 4.3-10 Female            | 5798470-3               |
| Remote Electrical Tilt (RET)                          | Multi-Device Control Unit<br>(MDCU) | 4.3-10 Female            | 5798470G-3              |
| AISG v2.0 / 3GPP                                      | Multi-Device Dual Unit<br>(MDDU)    | 4.3-10 Female            | 5798470Dx*-3            |

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







Integra compatible 5G Ready

65° 2340 mm

48-Port Antenna

# 5798470-3

5798470G-3 5798470Dx-3

8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm

| ELECTR  | ICAL SPECIFICATIONS Filter               | red Array (R2) | <b>R</b> 1   |
|---|--|----------------|--------------|
| Frequenc  | Frequency Range                          |                | 698-803      |
| Polarizatio   | on                                       |                | ±45°         |
| Gain  | Over all Tilts                           | dBi            | 13.9 ± 0.4   |
| Azimuth E   | Azimuth Beamwidth                        |                | 74.8° ± 3.7° |
| Elevation   | Elevation Beamwidth                      |                | 11.0° ± 0.8° |
| Electrical  | Electrical Downtilt                      |                | 2°-12°       |
| Impedanc  | ce                                       | Ohms           | 50           |
| VSWR (Re  | eturn Loss)                              | (dB)           | < 1.5 (>14)  |
|   | itermodulation<br>r for 2 x 20W Carriers | dBc            | < -153       |
| Front-to-E  | Back Ratio, Total Power, ±30°            | dB             | > 23.5       |
| Upper Sid   | elobe Suppression, Peak to 20°           | dB             | > 15.8       |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |  | dB             | > 8.4        |
| Maximum Effective Power Per Port                        |  | Watts          | 250 W        |
| Inter/Intra Cluster Isolation                           |  | dB             | > 25         |
|   |  |                |              |

All parameters are compliant with BASTA revision V11.1

| ELECTRICA   | <b>AL SPECIFICATIONS</b> Filte   | ed Array (R1) | <b>R</b> 2   |
|---|----------------------------------|---------------|--------------|
| Frequency Ra  | ange                             | MHz           | 698-803      |
| Polarization  |                                  |               | ±45°         |
| Gain  | Over all Tilts                   | dBi           | 13.9 ± 0.4   |
| Azimuth Bear  | mwidth                           | degrees       | 74.8° ± 3.7° |
| Elevation Beamwidth                                     |                                  | degrees       | 11.0° ± 0.8° |
| Electrical Do   | wntilt                           | degrees       | 2°-12°       |
| Impedance   | Impedance                        |               | 50           |
| VSWR (Return  | n Loss)                          | (dB)          | < 1.5 (>14)  |
| Passive Interr<br>3rd Order for                         | modulation<br>r 2 x 20W Carriers | dBc           | < -153       |
| Front-to-Back   | k Ratio, Total Power, ±30°       | dB            | > 23.5       |
| Upper Sidelo  | pe Suppression, Peak to 20°      | dB            | > 15.8       |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |                                  | dB            | > 8.4        |
| Maximum Effective Power Per Port                        |                                  | Watts         | 250 W        |
| Inter/Intra Cl  | uster Isolation                  | dB            | > 25         |

All parameters are compliant with BASTA revision V11.1



**R**3

📕 B1

5G Ready

Integra compatible

65° 2340 mm

48-Port Antenna

# 5798470-3

5798470G-3 5798470Dx-3

8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm

#### ELECTRICAL SPECIFICATIONS Ultra Low Band

| ELECTRICA   | AL SPECIFICATIONS Oltra          | Low Band |              |              |              |  |  |
|---|----------------------------------|----------|--------------|--------------|--------------|--|--|
| Frequency Range   |                                  | MHz      | 698-960      |              |              |  |  |
|   |                                  | MHz      | 698-806      | 790-862      | 880-960      |  |  |
| Polarization  |                                  |          |              | ±45°         |              |  |  |
| Gain  | Over all Tilts                   | dBi      | 14.2 ± 0.5   | 15.0 ± 0.6   | 15.5° ± 0.5  |  |  |
| Azimuth Beamwidth                                       |                                  | degrees  | 74.5° ±4.6°  | 67.5° ± 3.8° | 61.1° ± 5.0° |  |  |
| Elevation Be  | amwidth                          | degrees  | 11.5° ± 1.0° | 10.1° ± 0.7° | 9.1° ± 0.6°  |  |  |
| Electrical Do   | wntilt                           | degrees  | 2°-12°       |              |              |  |  |
| Impedance   |                                  | Ohms     | 50           |              |              |  |  |
| VSWR (Retur   | n Loss)                          | (dB)     | < 1.5 (>14)  |              |              |  |  |
| Passive Inter<br>3rd Order fo                           | modulation<br>r 2 x 20W Carriers | dBc      | < -153       |              |              |  |  |
| Front-to-Bac  | k Ratio, Total Power, ±30°       | dB       | > 22.7       | > 20.7       | > 23.0       |  |  |
| Upper Sidelo  | be Suppression, Peak to 20°      | dB       | > 18.1       | > 15.6       | > 15.4       |  |  |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |                                  | dB       | > 9.9        | > 7.5        | > 6.7        |  |  |
| Maximum Effective Power Per Port                        |                                  | Watts    | 200 W        |              |              |  |  |
| Inter/Intra C   | Inter/Intra Cluster Isolation    |          | > 25         |              |              |  |  |
|   |                                  |          |              |              |              |  |  |

All parameters are compliant with BASTA revision V11.1

#### ELECTRICAL SPECIFICATIONS Filtered Array (Y1)

| LECINCA   |                                | eu Anay (TT) |             |              |              |  |  |
|---|--------------------------------|--------------|-------------|--------------|--------------|--|--|
| Frequency Range   |                                | MHz          |             | 1427-2180    |              |  |  |
|   |                                | MHz          | 1427-1518   | 1695-1880    | 1920-2180    |  |  |
| Polarization  |                                |              | I           | ±45°         | I            |  |  |
| Gain  | Over all Tilts                 | dBi          | 15.5 ± 0.5  | 16.4 ± 0.4   | 16.8 ± 0.4   |  |  |
| Azimuth Beamwidth                                       |                                | degrees      | 69.8° ±4.8° | 69.0° ± 3.3° | 66.6° ± 4.1° |  |  |
| Elevation Bea   | mwidth                         | degrees      | 7.3° ± 0.4° | 6.0° ± 0.2°  | 5.5° ± 0.5°  |  |  |
| Electrical Dow  | vntilt                         | degrees      | 2°-12°      |              |              |  |  |
| Impedance   |                                | Ohms         | 50          |              |              |  |  |
| VSWR (Return  | Loss)                          | (dB)         | < 1.5 (>14) |              |              |  |  |
| Passive Interm<br>3rd Order for                         | nodulation<br>2 x 20W Carriers | dBc          | < -153      |              |              |  |  |
| Front-to-Back   | Ratio, Total Power, ±30°       | dB           | > 25.0      | > 27.2       | > 26.1       |  |  |
| Upper Sidelob   | e Suppression, Peak to 20°     | dB           | > 13.8      | > 13.4       | > 12.2       |  |  |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |                                | dB           | > 7.6 > 6.9 |              | > 7.9        |  |  |
| Maximum Effective Power Per Port                        |                                | Watts        | 200 W       |              |              |  |  |
| Inter/Intra Cluster Isolation                           |                                | dB           | > 25        |              |              |  |  |
|   |                                |              |             |              |              |  |  |

All parameters are compliant with BASTA revision V11.1



Integra compatible

65°

5G Ready

48-Port Antenna

2340 mm

# 5798470-3

5798470G-3 5798470Dx-3

8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm

| ELECTRICAL S  | SPECIFICATIONS Filtere   | ed Array (Y3) |             | <b>B</b> 2   |              |  |  |
|---|--------------------------|---------------|-------------|--------------|--------------|--|--|
| Frequency Range   |                          | MHz           | 1427-2180   |              |              |  |  |
|   |                          | MHz           | 1427-1518   | 1920-2180    |              |  |  |
| Polarization  |                          |               |             | ±45°         |              |  |  |
| Gain  | Over all Tilts           | dBi           | 15.4 ± 0.5  | 16.5 ± 0.5   | 16.9 ± 0.5   |  |  |
| Azimuth Beamw   | vidth                    | degrees       | 70.2° ±4.1° | 69.1° ± 4.3° | 65.8° ± 4.7° |  |  |
| Elevation Beam  | width                    | degrees       | 7.3° ± 0.4° | 6.1° ± 0.3°  | 5.5° ± 0.5°  |  |  |
| Electrical Down   | tilt                     | degrees       | 2°-12°      |              |              |  |  |
| Impedance   |                          | Ohms          | 50          |              |              |  |  |
| VSWR (Return L  | .oss)                    | (dB)          | < 1.5 (>14) |              |              |  |  |
| Passive Intermo<br>3rd Order for 2                      |                          | dBc           | < -153      |              |              |  |  |
| Front-to-Back Ra  | atio, Total Power, ±30°  | dB            | > 23.6      | > 25.9       | > 27.2       |  |  |
| Upper Sidelobe  | Suppression, Peak to 20° | dB            | > 12.8      | > 12.7       | > 11.8       |  |  |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |                          | dB            | > 8.7 > 6.1 |              | > 7.8        |  |  |
| Maximum Effective Power Per Port                        |                          | Watts         | 200 W       |              |              |  |  |
| Inter/Intra Cluster Isolation                           |                          | dB            | > 25        |              |              |  |  |

All parameters are compliant with BASTA revision V11.1

| d Array (B1) | <mark> </mark>  |
|--------------|---|
| MHz          | 2490-2690   |
|              | ±45°  |
| dBi          | 16.9 ± 0.4  |
| degrees      | 61.2° ± 5.8°  |
| degrees      | $5.0^{\circ} \pm 0.4^{\circ}$   |
| degrees      | 2°-12°  |
| Ohms         | 50  |
| (dB)         | < 1.5 (>14)   |
| dBc          | < -153  |
| dB           | > 25.3  |
| dB           | > 13.1  |
| dB           | > 6.9   |
| Watts        | 200 W   |
| dB           | > 25  |
|              | MHz<br>dBi<br>degrees<br>degrees<br>degrees<br>cohms<br>cohms<br>dBc<br>dBc<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB |

All parameters are compliant with BASTA revision V11.1



Y2

5G Ready

Integra compatible

65° 2340 mm

48-Port Antenna

# 5798470-3

5798470G-3 5798470Dx-3

8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm

#### ELECTRICAL SPECIFICATIONS Filtered Array (Y3)

| Frequency Range   |                             | MHz     |             | 1427-        | 2690                          |              |  |  |
|---|-----------------------------|---------|-------------|--------------|-------------------------------|--------------|--|--|
|   |                             | MHz     | 1427-1518   | 1695-1880    | 1920-2180                     | 2490-2690    |  |  |
| Polarization  |                             |         |             | ±4           | 5°                            |              |  |  |
| Gain  | Over all Tilts              | dBi     | 15.7 ± 0.3  | 17.0 ± 0.4   | 17.3 ± 0.5                    | 17.4 ± 0.5   |  |  |
| Azimuth Beamwidth                                       |                             | degrees | 72.1° ±4.5° | 63.4° ± 4.6° | 61.4° ± 4.4°                  | 65.5° ± 5.2° |  |  |
| Elevation Beamwidth                                     |                             | degrees | 7.0° ± 0.3° | 5.8° ± 0.4°  | $5.2^{\circ} \pm 0.4^{\circ}$ | 4.1° ± 0.3°  |  |  |
| Electrical Dowr   | ntilt                       | degrees | 2°-12°      |              |                               |              |  |  |
| Impedance   |                             | Ohms    | 50          |              |                               |              |  |  |
| VSWR (Return L  | _oss)                       | (dB)    | < 1.5 (>14) |              |                               |              |  |  |
| Passive Intermo<br>3rd Order for 2                      | odulation<br>x 20W Carriers | dBc     | < -153      |              |                               |              |  |  |
| Front-to-Back R   | Ratio, Total Power, ±30°    | dB      | > 26.0      | > 24.4       | > 28.0                        | > 25.3       |  |  |
| Upper Sidelobe  | Suppression, Peak to 20°    | dB      | > 15.6      | > 15.4       | > 16.6                        | > 14.5       |  |  |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |                             | dB      | > 6.6       | > 9.6        | > 9.4                         | > 7.5        |  |  |
| Maximum Effective Power Per Port                        |                             | Watts   | 200 W       |              |                               |              |  |  |
| Inter/Intra Cluster Isolation                           |                             | dB      | > 25        |              |                               |              |  |  |

### ELECTRICAL SPECIFICATIONS MEGA Wide

| Band  |   |         |                               |
|---|---|---------|-------------------------------|
| Frequency Range   |   | MHz     | 2490-2690                     |
| Polarization  |   |         | ±45°                          |
| Gain  | Over all Tilts  | dBi     | 16.9 ± 0.4                    |
| Azimuth Beamwid   | lth   | degrees | 59.5° ± 4.6°                  |
| Elevation Beamwidth                                     |   | degrees | $4.9^{\circ} \pm 0.5^{\circ}$ |
| Electrical Downtil                                      | t   | degrees | 2°-12°                        |
| Impedance   | Impedance   |         | 50                            |
| VSWR (Return Los  | ss)   | (dB)    | < 1.5 (>14)                   |
|   | Passive Intermodulation<br>3rd Order for 2 x 20W Carriers |         | < -153                        |
| Front-to-Back Rat                                       | io, Total Power, ±30°                                     | dB      | > 24.3                        |
| Upper Sidelobe Su                                       | ppression, Peak to 20°                                    | dB      | > 12.1                        |
| Cross Polar Discrimination (XPD)<br>Sector Edges (±60°) |   | dB      | > 6.0                         |
| Maximum Effective Power Per Port                        |   | Watts   | 200 W                         |
| Inter/Intra Cluster Isolation                           |   | dB      | > 25                          |
|   |   |         |                               |

All parameters are compliant with BASTA revision V11.1

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5G Ready

Integra compatible

2340 mm

48-Port Antenna

65°

# 5798470-3

5798470G-3 5798470Dx-3 8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm

### ELECTRICAL DOWNTILT CONTROL

| For multiband antennas, electrical downtilt for each band can be controlled separately. |  |  |  |  |  |
|---|--|--|--|--|--|
| Manual Electrical Tilt (MET)<br>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)<br>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. See details below and refer to the ordering options to see which actuators are available with this particular antenna. 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. *Refer to the* ORDERING OPTIONS for availability with this model.

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. *Refer to the* ORDERING OPTIONS for availability with this model.

| 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  |  |  |
| MDCU                          |                           | One pair of AISG Male and Female (type IEC60130-9)  |  |  |
| RET Interface                 | MDDU                      | Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)                                   |  |  |
| Field Replaceable Unit        |                           | Yes   |  |  |
|                               |                           |   |  |  |



Integra compatible 5G Ready

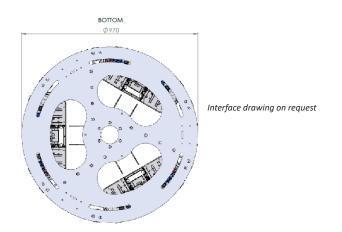
65° 2340 mm

48-Port Antenna

# 5798470-3

5798470G-3 5798470Dx-3

8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 mm



| ARRAY LAYOUT | ARRAY             | FREQUENCY | CONNECTOR | CONNECTOR TYPE |  |
|--------------|-------------------|-----------|-----------|----------------|--|
|              | <b>R</b> 1        | 698-803   | 1-2       | 4.3-10 Female  |  |
|              | <b>R</b> 2        | 880-960   | 3-4       | 4.3-10 Female  |  |
|              | <b>R</b> 3        | 698-960   | 5-6       | 4.3-10 Female  |  |
|              | <b>B</b> 1        | 1427-2180 | 7-8       | 4.3-10 Female  |  |
|              | <b>B</b> 2        | 1427-2180 | 9-10      | 4.3-10 Female  |  |
|              | <mark>_</mark> Y1 | 2490-2690 | 11-12     | 4.3-10 Female  |  |
|              | ¥2                | 1427-2690 | 13-14     | 4.3-10 Female  |  |
|              | <mark></mark> Y3  | 2490-2690 | 15-16     | 4.3-10 Female  |  |

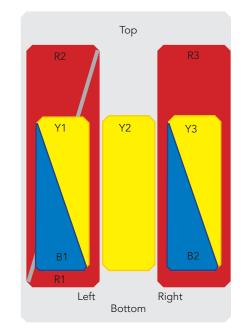


Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

#### MECHANICAL SPECIFICATIONS

| Length                 |  |               | mm (in)                           | 2340 (92.1)                             |  |
|------------------------|--|---------------|-----------------------------------|---|--|
| Diameter               |  |               | mm (in)                           | 970 (38.1)                              |  |
|                        | Veight   | Three Sectors | kg (lbs)                          | 360 (794)                               |  |
| Net W                  |  | Two Sectors   | kg (lbs)                          | 310 (683)                               |  |
|                        |  | One Sector    | kg (lbs)                          | 260 (573)                               |  |
| Windle                 | load<br>991-1-4:2005 using<br>Tunnel Coefficients) | Calculation   | km/h (mph)                        | 150 (93.2)                              |  |
|                        |  | Value         | N (lbf)                           | 2090 (470)                              |  |
| Operational Wind Speed |  | km/h (mph)    | 160 (99.4)                        |   |  |
| Survival Wind Speed    |  |               | km/h (mph)                        | 200 (124)                               |  |
| Radome Color           |  |               |                                   | Gray RAL7035                            |  |
| Radome Material        |  |               |                                   | Outdoor Fiberglass                      |  |
| Lightning Protection   |  |               | Direct Ground                     |   |  |
| Shipping               | Shipping Dimensions (Length x Width x Depth)       |               | mm (in)                           | 2450 x 1080 x 1080 (96.5 x 42.5 x 42.5) |  |
|                        | Shipping Weight (Three Sectors)                    |               | kg (lbs)                          | 535 (1179)                              |  |
|                        | Shipping Volume                                    |               | m <sup>3</sup> (ft <sup>3</sup> ) | 2.86 (71)                               |  |



Integra compatible 5G Ready

2340 mm

48-Port Antenna

65°

# 5798470-3

5798470G-3 5798470Dx-3 8-Band, 48-Port, 65°, XPOL, Tri-Sector Antenna, Variable Tilt, 2340 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   |  |

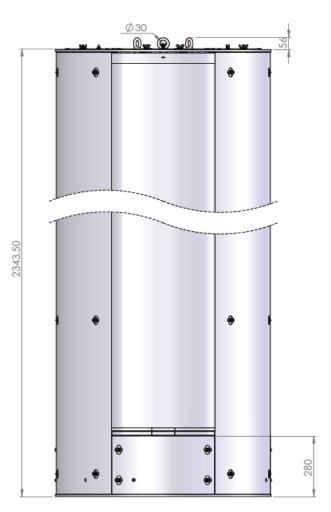
#### ACCESSORIES All accessories are ordered separately unless otherwise indicated

| ITEM  | MODEL NUMBER | WEIGHT         |
|---|--------------|----------------|
| Lightning Rod Kit for Trio Nodeline and Trio Hybrid Kit | TLX-LPN      | 2 kg (4.4 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.



Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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