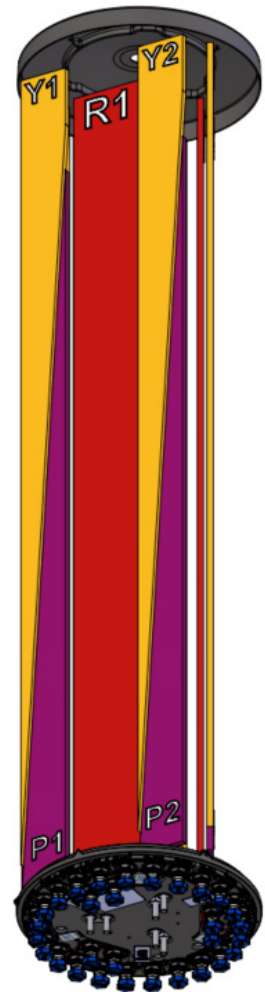


0202-100404s

Penta Band, 30-Port, 65°, XPOL, Tri-Sector Canister Antenna, Fixed Tilt, 1496 mm

- Penta band antenna, dual polarisation, 30 connectors
- Trisector configuration
- Broadband networks 698-960 MHz, 1695-2690 MHz, 3300-3800 MHz
- Ideal for multi-carrier or 4x4 MIMO deployments
- Easily removable lifting ring

| | | | | |
|------------------|-------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| PRODUCT OVERVIEW | Frequency Range (MHz) | 698-960 | (2x) 1695-2690 | (2x) 3300-3800 |
| | Array | ■ R1 | ■ Y1 ■ Y2 | ■ P1 ■ P2 |
| | Connector | 1-2 | 3-4-5-6 | 7-8-9-10 |
| | Polarization | XPOL | XPOL | XPOL |
| | Azimuth Beamwidth (avg) | 65° | 65° | 65° |
| | Electrical Downtilt | 10° | 04° | 04° |
| | | Contact us for different downtilt configurations | | |
| | Dimensions | 1496 x Ø371 mm | | |



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5G Ready

TRISECTOR

1496 mm

0202-100404s

Penta Band, 30-Port, 65°, XPOL, Tri-Sector Canister Antenna, Fixed Tilt, 1496 mm

ELECTRICAL SPECIFICATIONS Ultra Low Band

■ R1

| | | | | |
|-----------------------------------------------------------|----------|--------------|--------------|--------------|
| Frequency Range | MHz | 698-960 | | |
| | MHz | 698-806 | 790-862 | 880-960 |
| Polarization | --- | ±45° | | |
| Gain | dBi | 13.4 ± 0.4 | 14.3 ± 0.5 | 14.8 ± 0.2 |
| Azimuth Beamwidth | degrees | 72.9° ± 1.1° | 67.1° ± 4.0° | 67.1° ± 0.7° |
| Elevation Beamwidth | degrees | 15.9° ± 0.9° | 14.7° ± 0.8° | 13.6° ± 0.7° |
| Electrical Downtilt | degrees | 10° | | |
| Impedance | Ohms | 50 | | |
| VSWR (Return Loss) | --- (dB) | < 1.5 (>14) | | |
| Passive Intermodulation 3rd Order for 2 x 20W Carriers | dBc | < -153 | | |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 21.4 | > 22.0 | > 21.9 |
| Maximum Effective Power Per Port | Watts | 250 W | | |
| Inter/Intra Cluster Isolation | dB | > 25 | | |

All parameters are compliant with BASTA revision V11.1

ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y1

| | | | | | |
|-----------------------------------------------------------|----------|--------------|--------------|--------------|--------------|
| Frequency Range | MHz | 1695-2690 | | | |
| | MHz | 1695-1880 | 1920-2180 | 2300-2400 | 2490-2690 |
| Polarization | --- | ±45° | | | |
| Gain | dBi | 17.0 ± 0.2 | 18.0 ± 0.4 | 18.5 ± 0.3 | 18.6 ± 0.5 |
| Azimuth Beamwidth | degrees | 60.2° ± 3.9° | 64.6° ± 4.3° | 62.8° ± 2.1° | 60.3° ± 3.0° |
| Elevation Beamwidth | degrees | 6.9° ± 0.6° | 6.1° ± 0.5° | 5.3° ± 0.4° | 4.8° ± 0.3° |
| Electrical Downtilt | degrees | 04° | | | |
| Impedance | Ohms | 50 | | | |
| VSWR (Return Loss) | --- (dB) | < 1.5 (>14) | | | |
| Passive Intermodulation 3rd Order for 2 x 20W Carriers | dBc | < -153 | | | |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 14.0 | > 13.7 | > 20.0 | > 18.6 |
| Maximum Effective Power Per Port | Watts | 200 W | | | |
| Inter/Intra Cluster Isolation | dB | > 25 | | | |

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5G Ready

TRISECTOR

1496 mm

0202-100404s

Penta Band, 30-Port, 65°, XPOL, Tri-Sector Canister Antenna, Fixed Tilt, 1496 mm

ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y2

| Frequency Range | MHz | 1695-2690 | | | |
|-----------------------------------------------------------|----------|--------------|--------------|--------------|--------------|
| | MHz | 1695-1880 | 1920-2180 | 2300-2400 | 2490-2690 |
| Polarization | --- | ±45° | | | |
| Gain | dBi | 17.1 ± 0.2 | 18.1 ± 0.4 | 18.5 ± 0.4 | 18.6 ± 0.4 |
| Azimuth Beamwidth | degrees | 60.9° ± 2.1° | 66.0° ± 3.9° | 64.1° ± 1.5° | 61.1° ± 2.1° |
| Elevation Beamwidth | degrees | 7.0° ± 0.7° | 6.3° ± 0.4° | 5.4° ± 0.4° | 4.8° ± 0.3° |
| Electrical Downtilt | degrees | 04° | | | |
| Impedance | Ohms | 50 | | | |
| VSWR (Return Loss) | --- (dB) | < 1.5 (>14) | | | |
| Passive Intermodulation 3rd Order for 2 x 20W Carriers | dBc | < -153 | | | |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 12.6 | > 13.9 | > 18.9 | > 19.8 |
| 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 3500

■ P1

| Frequency Range | MHz | 3300-3800 | |
|-----------------------------------------|----------------|--------------|------------|
| Polarization | --- | ±45° | |
| Gain | Over all Tilts | dBi | 16.3 ± 0.6 |
| Azimuth Beamwidth | degrees | 59.0° ± 5.4° | |
| Elevation Beamwidth | degrees | 5.1° ± 0.6° | |
| Electrical Downtilt | degrees | 04° | |
| Impedance | Ohms | 50 | |
| VSWR (Return Loss) | --- (dB) | < 1.5 (>14) | |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 14.7 | |
| Maximum Effective Power Per Port | Watts | 75 W | |
| Inter/Intra Cluster Isolation | dB | > 25 | |

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5G Ready

TRISECTOR

1496 mm

0202-100404s

Penta Band, 30-Port, 65°, XPOL, Tri-Sector Canister Antenna, Fixed Tilt, 1496 mm

ELECTRICAL SPECIFICATIONS 3500

■ P2

| | | | |
|-----------------------------------------|----------------|--------------|------------|
| Frequency Range | MHz | 3300-3800 | |
| Polarization | --- | ±45° | |
| Gain | Over all Tilts | dBi | 16.3 ± 0.6 |
| Azimuth Beamwidth | degrees | 59.0° ± 5.4° | |
| Elevation Beamwidth | degrees | 5.1° ± 0.6° | |
| Electrical Downtilt | degrees | 04° | |
| Impedance | Ohms | 50 | |
| VSWR (Return Loss) | --- (dB) | < 1.5 (>14) | |
| Upper Sidelobe Suppression, Peak to 20° | dB | > 14.7 | |
| Maximum Effective Power Per Port | Watts | 75 W | |
| Inter/Intra Cluster Isolation | dB | > 25 | |

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PRELIMINARY

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5G Ready

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1496 mm

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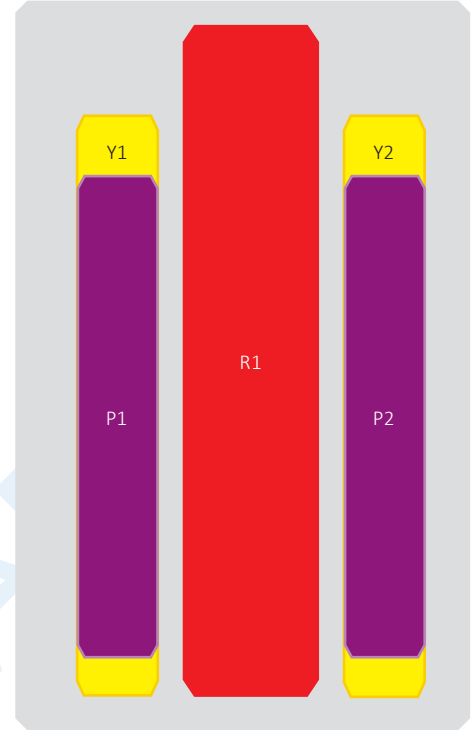
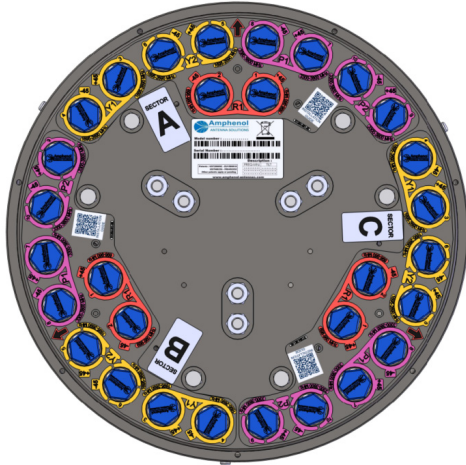


Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

| ARRAY LAYOUT | ARRAY | FREQUENCY | CONNECTOR | CONNECTOR TYPE |
|--------------|-------|-----------|-----------|----------------|
| | R1 | 698-960 | 1-2 | 4.3-10 Female |
| | Y1 | 1695-2690 | 3-4 | 4.3-10 Female |
| | Y2 | 1695-2690 | 5-6 | 4.3-10 Female |
| | P1 | 3300-3800 | 7-8 | 4.3-10 Female |
| | P2 | 3300-3800 | 9-10 | 4.3-10 Female |

MECHANICAL SPECIFICATIONS

| | | | |
|------------------------------------------------------------------|----------------------------------------------|-----------------------------------|---------------------------------------|
| Length | mm (in) | 1496 (58.9) | |
| Diameter | mm (in) | 371 (14.6) | |
| Net Weight - Antenna Only | kg (lbs) | 35.0 (77.2) | |
| Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients) | Calculation | km/h (mph) | 150 (93.2) |
| | Frontal | N (lbf) | 488 (110) |
| Operational Wind Speed | km/h (mph) | 160 (99.4) | |
| Survival Wind Speed | km/h (mph) | 240 (149) | |
| Radome Color | --- | Gray RAL7039 | |
| Radome Material | --- | Outdoor Fiberglass | |
| Lightning Protection | --- | Direct Ground | |
| Shipping | Shipping Dimensions (Length x Width x Depth) | mm (in) | 1700 x 510 x 510 (66.9 x 20.1 x 20.1) |
| | Shipping Weight | kg (lbs) | TBD (TBD) |
| | Shipping Volume | m ³ (ft ³) | 0.442 (15.6) |

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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 |
|----------------------------------------------------------------------------------------------|--------------|------------------|
| Mounting kit for Stations-e sites (including mounting kit and cover RAL7039) <i>optional</i> | CWT-MKS-STE | TBD kg (TBD lbs) |
| RF jumpers available in different lengths, diameters and connector types <i>optional</i> | - | - |
| Cable Hanger Sleeve 1" diameter <i>optional</i> | - | - |

INSTALLATION

Please read all installation notes before installing this product.

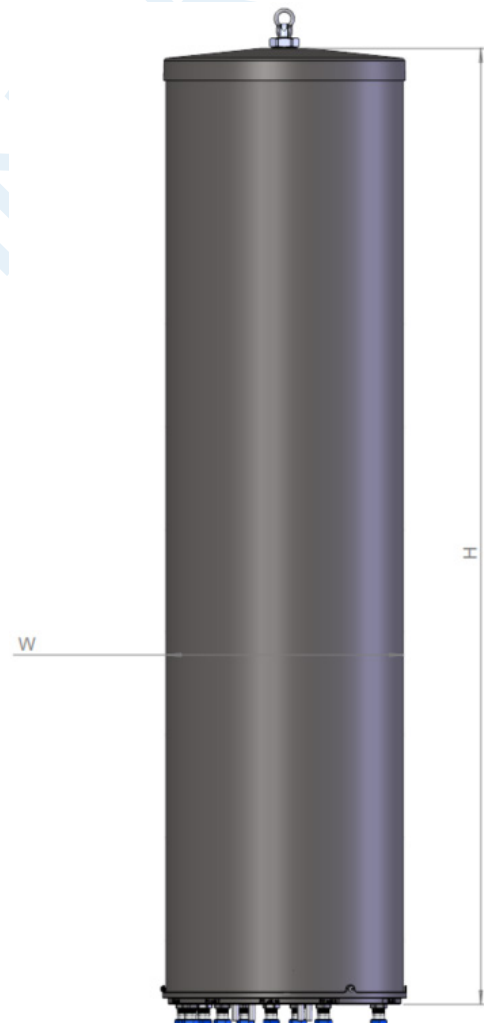


Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

MAIN DIMENSIONS

| | H | mm (in) | |
|----------|---|-------------|--|
| Length | | 1496 (58.9) | |
| Diameter | W | 371 (14.6) | |



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