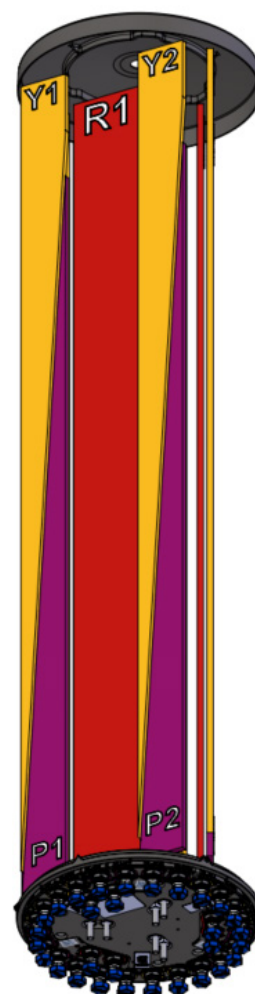


## 0202-100404s

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	<span style="color: red;">■</span> R1	<span style="color: yellow;">■</span> Y1 <span style="color: yellow;">■</span> Y2	<span style="color: purple;">■</span> P1 <span style="color: purple;">■</span> 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		



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			

All parameters are compliant with BASTA revision V11.1

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

All parameters are compliant with BASTA revision V11.1

## 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	16.2 ± 0.5
Azimuth Beamwidth		degrees	59.9° ± 6.1°
Elevation Beamwidth		degrees	5.2° ± 0.7°
Electrical Downtilt		degrees	04°
Impedance		Ohms	50
VSWR (Return Loss)		--- (dB)	< 1.5 (>14)
Upper Sidelobe Suppression, Peak to 20°		dB	> 15.5
Maximum Effective Power Per Port		Watts	75 W
Inter/Intra Cluster Isolation		dB	> 25

All parameters are compliant with BASTA revision V11.1

## 0202-100404s

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

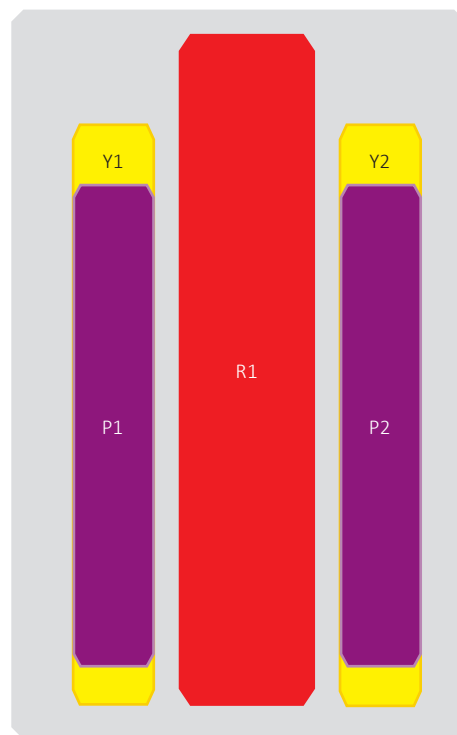
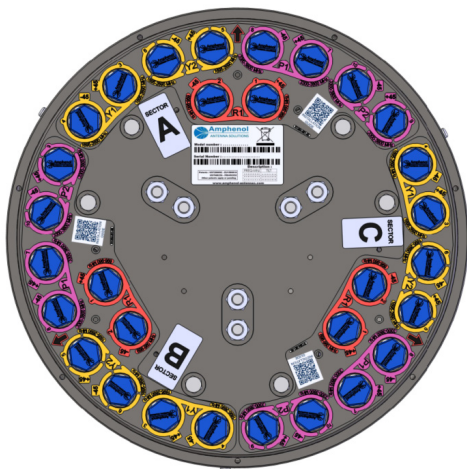


Diagram shown at right depicts the view from the front of the antenna.  
The illustration is not shown to scale.

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)	34 (75.0)
Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients)	Calculation	km/h (mph)	150 (93.2)
	Maximum	N (lbf)	364 (81.8)
Operational Wind Speed		km/h (mph)	160 (99.4)
Survival Wind Speed		km/h (mph)	200 (124.3)
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)	42 (92.6)
	Shipping Volume	m <sup>3</sup> (ft <sup>3</sup> )	0.442 (15.6)

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.

## 0202-100404s

Penta Band, 30-Port, 65°, XPOL, Tri-Sector Canister Antenna, Fixed Tilt, 1496 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
Mounting kit for Stations-e sites (including mounting kit and cover RAL7039) <i>optional</i>	CWT-MKS-STE	9 kg (19.8 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

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

