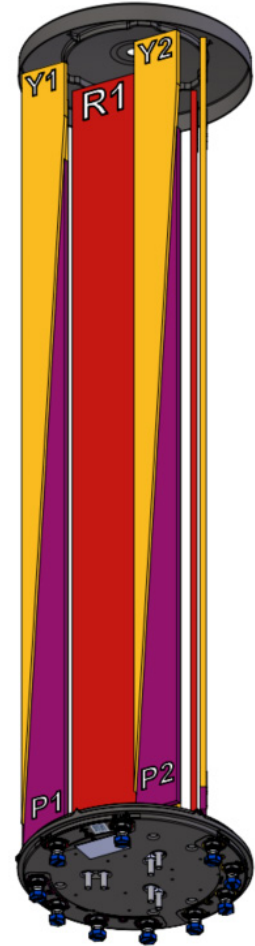


## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, Canister Antenna, Fixed Tilt, 1496 mm

- Penta band antenna, dual polarisation, 10 connectors
- Pseudo omni 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)	360°	360°	360°
	Electrical Downtilt	10°	04°	04°
		Contact us for different downtilt configurations		
Dimensions	1496 x Ø371 mm			



## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, 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	9.6 ± 0.5	9.8 ± 0.4	9.9 ± 0.6
Azimuth Beamwidth	degrees	360°	360°	360°
Elevation Beamwidth	degrees	16.5° ± 0.9°	15.5° ± 0.9°	14.1° ± 1.1°
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	> 22.0	> 21.3	> 20.7
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	11.6 ± 0.8	12.6 ± 0.7	13.2 ± 0.5	13.8 ± 0.6
Azimuth Beamwidth	degrees	360°	360°	360°	360°
Elevation Beamwidth	degrees	6.9° ± 0.7°	6.1° ± 0.5°	5.2° ± 0.5°	5.0° ± 0.2°
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	> 14.1	> 14.5	> 16.4	> 16.6
Maximum Effective Power Per Port	Watts	200 W			
Inter/Intra Cluster Isolation	dB	> 25			

All parameters are compliant with BASTA revision V11.1

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.

## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, 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	11.6 ± 0.6	12.6 ± 0.8	13.2 ± 0.5	13.8 ± 0.6
Azimuth Beamwidth	degrees	360°	360°	360°	360°
Elevation Beamwidth	degrees	6.4° ± 0.6°	6.2° ± 0.6°	5.3° ± 0.4°	4.8° ± 0.5°
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	> 13.0	> 15.0	> 18.9	> 17.9
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	dBi	11.8 ± 0.7
Azimuth Beamwidth	degrees	360°
Elevation Beamwidth	degrees	5.0° ± 0.7°
Electrical Downtilt	degrees	04°
Impedance	Ohms	50
VSWR (Return Loss)	--- (dB)	< 1.5 (>14)
Upper Sidelobe Suppression, Peak to 20°	dB	> 15.2
Maximum Effective Power Per Port	Watts	75 W
Inter/Intra Cluster Isolation	dB	> 25

All parameters are compliant with BASTA revision V11.1

## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, Canister Antenna, Fixed Tilt, 1496 mm

### ELECTRICAL SPECIFICATIONS 3500

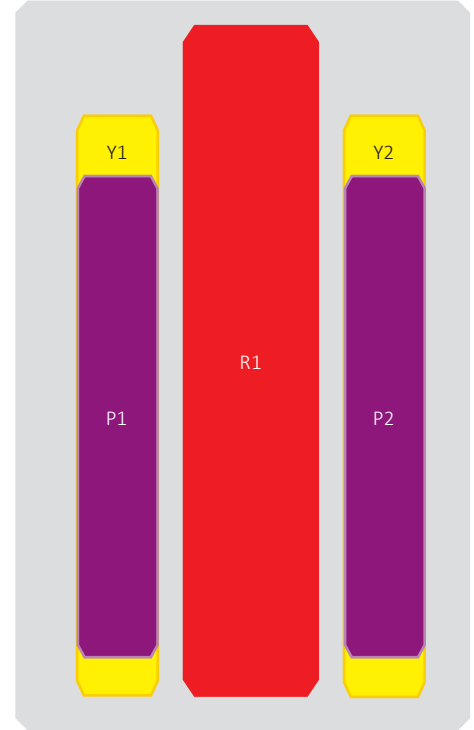
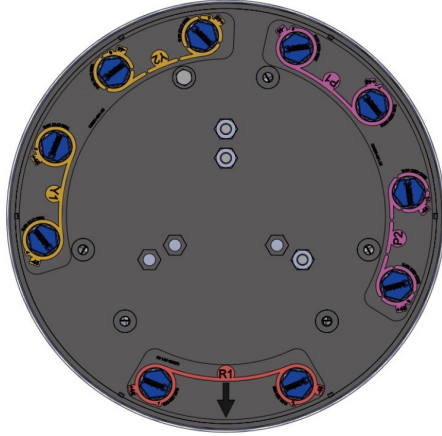
### ■ P2

Frequency Range	MHz	3300-3800
Polarization	---	±45°
Gain	dBi	11.8 ± 0.6
Azimuth Beamwidth	degrees	360°
Elevation Beamwidth	degrees	5.1° ± 0.8°
Electrical Downtilt	degrees	04°
Impedance	Ohms	50
VSWR (Return Loss)	--- (dB)	< 1.5 (>14)
Upper Sidelobe Suppression, Peak to 20°	dB	> 15.6
Maximum Effective Power Per Port	Watts	75 W
Inter/Intra Cluster Isolation	dB	> 25

*All parameters are compliant with BASTA revision V11.1*

## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, Canister Antenna, Fixed Tilt, 1496 mm



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	<span style="color: red;">■</span> R1	698-960	1-2	4.3-10 Female
	<span style="color: yellow;">■</span> Y1	1695-2690	3-4	4.3-10 Female
	<span style="color: yellow;">■</span> Y2	1695-2690	5-6	4.3-10 Female
	<span style="color: purple;">■</span> P1	3300-3800	7-8	4.3-10 Female
	<span style="color: purple;">■</span> P2	3300-3800	9-10	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)	1496 (58.9)	
Diameter	mm (in)	371 (14.6)	
Net Weight - Antenna Only	kg (lbs)	32 (70.6)	
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)	40 (88.2)
	Shipping Volume	m <sup>3</sup> (ft <sup>3</sup> )	0.442 (15.6)

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## 0201-100404s

Penta Band, 10-Port, Pseudo omni, XPOL, 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, diameter and connectors <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)

