



0406-0604s

Quad Band, 24-Port, 65°, XPOL, Hexa-Sector Canister Antenna, Fixed Tilt, 615 mm

- Quad band antenna, dual polarisation, 24 connectors
- Hexasector configuration
- Broadband networks 1695-2690 MHz, 3300-3800 MHz
- Ideal for multi-carrier or 4x4 MIMO deployments
- Integrated combiners between 1695-2690 MHz and 3300-3800 MHz

PRODUCT OVERVIEW	Frequency Range (MHz)	(24x) 1695-2690	(24x) 3300-3800
	Array	 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10 Y11 Y12	 P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12
	Connector	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°
	Electrical Downtilt	06°	04°
	Contact us for different downtilt configurations		
	Dimensions	615 x Ø371 mm	



ORDERING OPTIONS

Select from the different options listed below

SELECT FIXATION TYPE	DETAIL	ANTENNA MODEL NUMBER
No fixation	-	0406-0604s
Micro Container	-	0406-0604s-MC
Pole mount	219 mm cylindrical pole	0406-0604s-STE

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ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y1 ■ Y3 ■ Y5 ■ Y7 ■ Y9 ■ Y11

Frequency Range	MHz	1695-2690		
	MHz	1695-1880	1920-2180	2490-2690
Polarization	---	±45°		
Gain	dBi	11.0 ± 1.5	12.0 ± 0.9	12.5 ± 0.9
Azimuth Beamwidth	degrees	61.7° ± 9.1°	64.4° ± 8.9°	63.2° ± 8.0°
Elevation Beamwidth	degrees	20.3° ± 1.4°	18.7° ± 2.5°	14.9° ± 1.1°
Electrical Downtilt	degrees	06°		
Impedance	Ohms	50		
VSWR (Return Loss)	--- (dB)	< 1.6 (>12.5)		
Passive Intermodulation 3rd Order for 2 x 20W Carriers	dBc	< -153		
Upper Sidelobe Suppression, Peak to 20°	dB	> 16.8	> 17.6	> 14.3
Maximum Effective Power Per Port	Watts	200 W		
Intra Cluster Isolation	dB	> 23		

All parameters are compliant with BASTA revision V12.0

ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y2 ■ Y4 ■ Y6 ■ Y8 ■ Y10 ■ Y12

Frequency Range	MHz	1695-2690		
	MHz	1695-1880	1920-2180	2490-2690
Polarization	---	±45°		
Gain	dBi	10.9 ± 1.7	12.0 ± 0.9	12.4 ± 1.5
Azimuth Beamwidth	degrees	64.7° ± 9.1°	63.3° ± 9.9°	59.6° ± 8.1°
Elevation Beamwidth	degrees	20.6° ± 1.9°	17.7° ± 1.6°	14.3° ± 0.9°
Electrical Downtilt	degrees	06°		
Impedance	Ohms	50		
VSWR (Return Loss)	--- (dB)	< 1.6 (>12.5)		
Passive Intermodulation 3rd Order for 2 x 20W Carriers	dBc	< -153		
Upper Sidelobe Suppression, Peak to 20°	dB	> 12.9	> 18.1	> 9.0
Maximum Effective Power Per Port	Watts	200 W		
Intra Cluster Isolation	dB	> 23		

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ELECTRICAL SPECIFICATIONS ³⁵⁰⁰

■ P1 ■ P3 ■ P5 ■ P7 ■ P9 ■ P11

Frequency Range	MHz	3300-3800	
Polarization	---	±45°	
Gain	Over all Tilts	dBi	13.1 ± 1.0
Azimuth Beamwidth	degrees	67.1° ± 8.2°	
Elevation Beamwidth	degrees	8.1° ± 0.7°	
Electrical Downtilt	degrees	04°	
Impedance	Ohms	50	
VSWR (Return Loss)	--- (dB)	< 1.6 (>12.5)	
Upper Sidelobe Suppression, Peak to 20°	dB	> 12.1	
Maximum Effective Power Per Port	Watts	75 W	
Intra Cluster Isolation	dB	> 24	

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ELECTRICAL SPECIFICATIONS ³⁵⁰⁰

■ P2 ■ P4 ■ P6 ■ P8 ■ P10 ■ P12

Frequency Range	MHz	3300-3800	
Polarization	---	±45°	
Gain	Over all Tilts	dBi	13.1 ± 0.6
Azimuth Beamwidth	degrees	69.1° ± 10.0°	
Elevation Beamwidth	degrees	7.6° ± 0.4°	
Electrical Downtilt	degrees	04°	
Impedance	Ohms	50	
VSWR (Return Loss)	--- (dB)	< 1.6 (>12.5)	
Upper Sidelobe Suppression, Peak to 20°	dB	> 12.9	
Maximum Effective Power Per Port	Watts	75 W	
Intra Cluster Isolation	dB	> 24	

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ELECTRICAL SPECIFICATIONS		Yx		Px
		1695-2180 MHz	2490-2690 MHz	3300-3800 MHz
Frequency Range		1695-2180 MHz	2490-2690 MHz	3300-3800 MHz
Impedance		50Ω		
VSWR		< 1.6		
Polarisation		±45°		
Return loss		> 12.5 dB		
Electrical Downtilt		6°		4°
Pseudo Omni 360° (using CBO-8/24-ABCDEF accessory)	Gain Over all Tilts	7.5 ± 1.1 dBi	7.8 ± 1.0 dBi	8.1 ± 0.6 dBi
	Azimuth Beamwidth	360°	360°	360°
	Elevation Beamwidth	18.5° ± 1.2°	14.8° ± 1.4°	7.7° ± 0.5°
	Upper Sidelobe Suppression, Peak to 20°	≥ 17.2 dB	≥ 11.1 dB	≥ 11.2 dB
Hexasector 30° (using CBH-24/24-ABCDEF accessory)	Gain Over all Tilts	12.5 ± 1.1 dBi	13.4 ± 1.3 dBi	14.5 ± 0.5 dBi
	Azimuth Beamwidth	47.9° ± 5.9°	38.5° ± 4.5°	29.6° ± 2.4°
	Elevation Beamwidth	18.2° ± 1.8°	14.6° ± 1.4°	7.8° ± 0.5°
	Upper Sidelobe Suppression, Peak to 20°	≥ 15.3 dB	≥ 12.6 dB	≥ 12.1 dB
Bisector 30° (using CBB-8/24-AD accessory)	Gain Over all Tilts	12.5 ± 1.1 dBi	13.4 ± 1.3 dBi	14.5 ± 0.5 dBi
	Azimuth Beamwidth	47.9° ± 5.9°	38.5° ± 4.5°	29.6° ± 2.4°
	Elevation Beamwidth	18.2° ± 1.8°	14.6° ± 1.4°	7.8° ± 0.5°
	Upper Sidelobe Suppression, Peak to 20°	≥ 15.3 dB	≥ 12.6 dB	≥ 12.1 dB
Trisector 65° (using CBT-36/24-ACE accessory)	Gain Over all Tilts	10.7 ± 1.0 dBi	11.6 ± 0.8 dBi	11.8 ± 0.6 dBi
	Azimuth Beamwidth	63.5° ± 9.2°	61.4° ± 8.0°	68.1° ± 8.8°
	Elevation Beamwidth	19.3° ± 1.8°	14.6° ± 1.0°	7.9° ± 0.6°
	Upper Sidelobe Suppression, Peak to 20°	≥ 12.7 dB	≥ 9.0 dB	≥ 12.1 dB

Distinct ports available for 1800/2100 and 2600 MHz
Full band ports available 1800/2100/2600 MHz

All parameters are compliant with
BASTA revision V12.0

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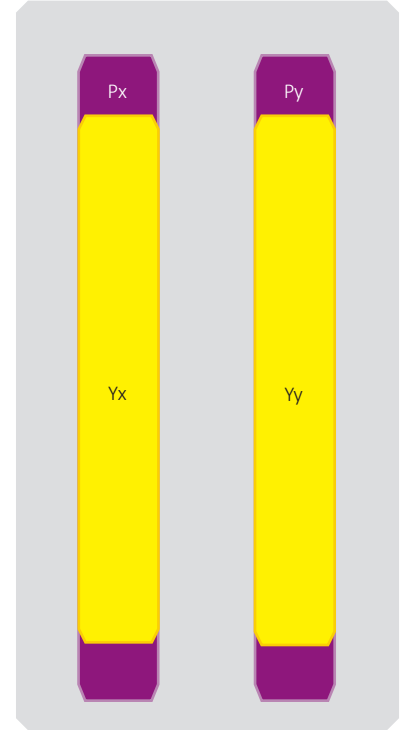
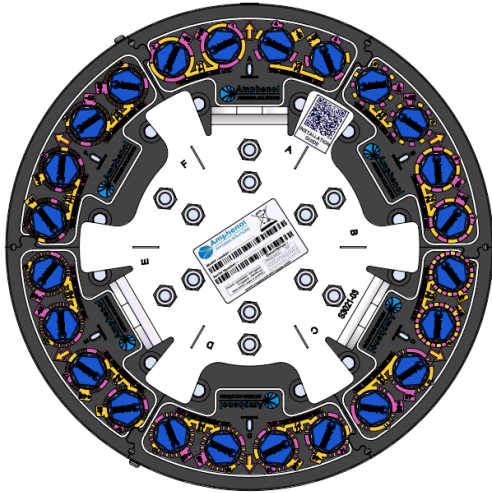


Diagram shown at right depicts the view from the front of the sector.
The illustration is not shown to scale.

ARRAY	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ Y1 to ■ Y12	1695-2690	1 to 24	4.3-10 Female
	■ P1 to ■ P12	3300-3800	1 to 24	4.3-10 Female

MECHANICAL SPECIFICATIONS

Length	mm (in)	615 (24.2)	
Diameter	mm (in)	371 (14.6)	
Net Weight - Antenna Only	kg (lbs)	18.0 (39.7)	
Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients)	Calculation	km/h (mph)	150 (93.2)
	Maximum	N (lbf)	150 (32.8)
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)	780 x 500 x 500 (30.7 x 19.7 x 19.7)
	Shipping Weight	kg (lbs)	25.0 (55.1)
	Shipping Volume	m ³ (ft ³)	0.195 (6.9)

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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
Beam boxes for pattern reconfiguration (optional)	Pseudo omni 360° (4T4R 1800/2100 or 4T4R 2600 & 4T4R 3500 MHz)	CBO-8/24-ABCDEF	8.6 kg (17.6 lbs)
	Hexasector 30° (2T2R 1800/2100 or 2T2R 2600 & 2T2R 3500 MHz)	CBH-24/24-ABCDEF	10.4 kg (22.1 lbs)
	Bisector 30° (2T2R 1800/2100 or 2T2R 2600 & 2T2R 3500 MHz)	CBB-8/24-AD	8.6 kg (17.6 lbs)
	Trisector 65°(4T4R 1800/2100 & 4T4R 2600 & 4T4R 3500 MHz)	CBT-36/24-ACE	11.1 kg (24.3 lbs)
RF jumpers available in different lengths, diameters and connector types (optional)		-	-
Cable Hanger Sleeve 1.25" diameter (optional)		1_14GRIP_1	0.2 kg (0.4 lbs)

INSTALLATION Please read all installation notes before installing this product.

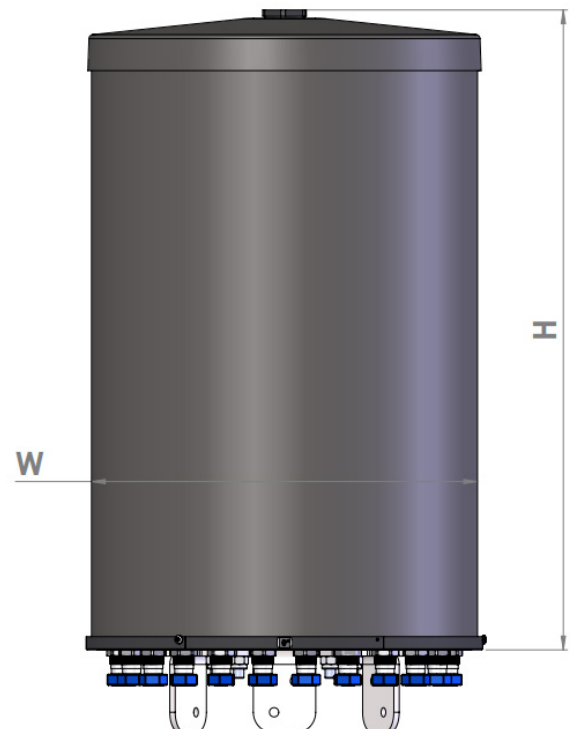


Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

MAIN DIMENSIONS

Length	H	mm (in)	615 (24.2)
Diameter	W	mm (in)	371 (14.6)



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