

NWAV™ Cylinder Antenna

8-port cylinder antenna 2496-2690 MHz:

- Small Cell multi-port cylinder antenna for increased coverage & capacity applications
- 8x8 beamforming-capable for 2496-2690 MHz
- · Increased gain for improved coverage
- Excellent cross-polar discrimination for MIMO performance



Electrical specifications, Single Column [non-beamforming] (maximum/minimum)	Ports 1, 2, 3, 4, 5, 6, 7, 8
Frequency bands, MHz	2496-2690
Gain, dBi	9.2
Vertical beamwidth (VBW), degrees ¹	10.7
Vertical beamwidth tolerance, degrees	±0.5
Electrical tilt	2
First upper side lobe (USLS) suppression, dB ¹	15
Coupling level, Amp, Antenna port to Cal port, dB	26
Coupling level, max Amp Δ , Antenna port to Cal port, dB	±0.5
Coupler, max Amp Δ , Antenna port to Cal port, dB	0.65
Coupler, max Phase Δ , Antenna port to Cal port, degrees	4
Cross-polar isolation, port-to-port, dB ¹	25
Max VSWR / return loss, dB	1.5:1/-14.0
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153
Max input power per port at 50 °C, watts	75

¹ Typical value over frequency and tilt.

Electrical specification, Broadcast	Ports 1, 2, 3, 4, 5, 6, 7, 8
Frequency bands, MHz	2496-2690
Gain, dBi	14.2
Horizontal beamwidth (HBW), degrees ¹	75
Vertical beamwidth (VBW), degrees ¹	10.7
Vertical beamwidth tolerance, degrees	±0.5
First upper side lobe (USLS) suppression, dB ¹	<-15
Electrical specification, Service Beam	Ports 1, 2, 3, 4, 5, 6, 7, 8
Frequency bands, MHz	2496-2690
Steered 0° gain, dBi	14.4
Steered 0° Gain tolerance, dBi	±0.3
Steered 0° Beamwidth, Horizontal, degrees	20.5

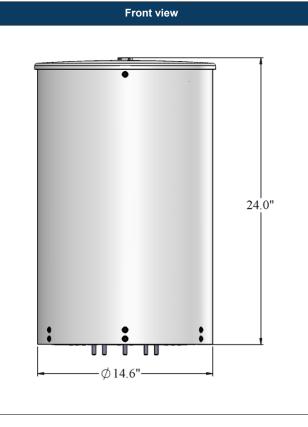
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CX08OMI236-25 NWAV™ Cylinder Antenna

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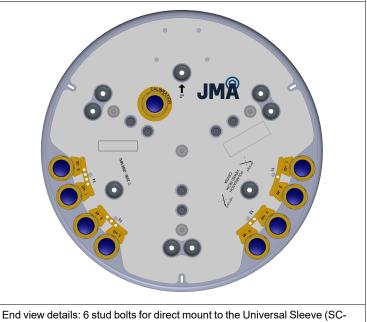
Electrical specification, Service Beam	Ports 1, 2, 3, 4, 5, 6, 7, 8
Steered 0° CPR at beampeak, dB	18
Steered 0° Horizontal Sidelobe, dB	13
Steered 30° Gain, dBi (max)	13.3
Steered 30° Gain tolerance, dBi	±0.3
Steered 30° Beamwidth, Horizontal, degree	23.2
Steered 30° CPR at beampeak, dB	18
Steered 30° Horizontal Sidelobe, dB	10

Mechanical specifications			
Dimensions height/diameter, inches (mm)	24.0/ 14.6 (609.6/ 370.8)		
Antenna volume (cubic feet)	2.32		
No. of RF input ports, connector type, and location	8 x 4.3-10 female, bottom		
Calibration interface port, connector type, and location	1 x 4.3-10 female, bottom		
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)		
Net antenna weight, Ib (kg)	30 (13.6)		
Rated wind survival speed, mph (km/h)	185 (298)		
Rated wind operational speed, mph (km/h)	150 (241)		
Frontal wind loading @ 160 km/h, lbf (N)	30 (133)		
Equivalent flat plate @ 100 mph and Cd=2, sq ft	1.17/0.69		



The 0 degree reference arrow corresponds to the 0 degree position in the antenna pattern file. Each antenna pattern file uses a top down orientation view (the patterns are viewed from the top of the antenna looking down).

End view



BKT-SLA)



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Ordering information					
Antenna model		Description	Description		
CX08OMI236-25		2ft 8 Port OMNI antenna 8BRS			
Notes on mounting brackets			Example bracket configuration		
 The antenna comes with th (marked as 1) factory-insta JMA cylinder brackets are of mount via universal canten (marked as 2) (SC-BKT-SL JMA cylinder mounting syst) To mitigate potential risk of mended torque values need 	illed. compatible with bottom na mount sleeve LA), sold separately with tems. PIM issues, the recom-	Univ mou cylir	d separately: rersal cantenna nt sleeve for JMA ider brackets 	Included with SC-BKT-SLA: 6X 5/16-18 nuts (Torque to 11 lbf-ft)	
Small Cell solutions and mounti			lide Diemeter Del		
Side Arm Mounting System Steel Pole Mounting System	SC-BKT-SA-(0 SC-BKT-SLA			SC-BKT-WTPE-(color)	
Array topology	30 E 9 E.				
8 sets of radiating arrays Y1: 2496-2690 MHz Y2: 2496-2690 MHz Y3: 2496-2690 MHz Y4: 2496-2690 MHz	Band 2496-2690	RF poi 1, 2, 3, 4, 5,		2496–2690 (Y1) 2496-2690 (Y2) えた 2496-2690 (Y3) 2496-2690 (Y4)	