CX12OHG236-2Cx

NWAV™ Cylinder Antenna

12-port cylinder antenna 1695-3980 MHz:

8 ports 1695-2200 MHz and 4 ports 3700-3980 MHz

- Small Cell multi-port PCS/AWS/CBRS/C-Band cylinder antenna
- Higher gain for C-Band to support superior 4T4R coverage
- Symmetrical pattern performance across all ports
- Excellent cross-polar discrimination for MIMO performance

Electrical specification (min/max)	Ports 1, 2, 3, 4, 5, 6, 7, 8		
Frequency bands, MHz	1695-1880	1850-1990	1920-2200
Polarization	± 45°		
Gain, dBi (max)	8.6	8.9	8.8
Gain, dBi (average)	7.9 ± 0.7	8.2 ± 0.7	8.2 ± 0.6
Horizontal beamwidth (HBW), degrees[1]	360°		
Vertical beamwidth (VBW), degrees[1]	29.0	27.0	25.3
Cross-polar discrimination over 360°[1]	16.0	17.0	16.5
Electrical downtilt (EDT), degrees	2° or 6° or 8°		
Cross-polar isolation, dB[1]	25		
Max VSWR / return loss, dB	1.5:1 / -14.0		
Max PIM, 3rd order 2x20W carrier, dBc	-153		
Maximum input power port, watts	125		

Electrical specification (min/max)	Ports 9, 10, 11, 12
Frequency bands, MHz	3700-3980
Polarization	± 45°
Gain, dBi (max)	13.3
Gain, dBi (average)	13.0 ± 0.3
Horizontal beamwidth (HBW), degrees[1]	360°
Vertical beamwidth (VBW), degrees[1]	9.4°
Cross-polar discrimination over 360°[1]	16.9
Electrical downtilt (EDT), degrees	2°
Cross-polar isolation, dB[1]	25
Max VSWR / return loss, dB	1.5:1 / -14.0
Max PIM, 2x20W carrier, dBc	-145
Maximum input power port, watts	100
Maximum composite power, watts (all ports)	1000

[1] Typical value over frequency and tilt.

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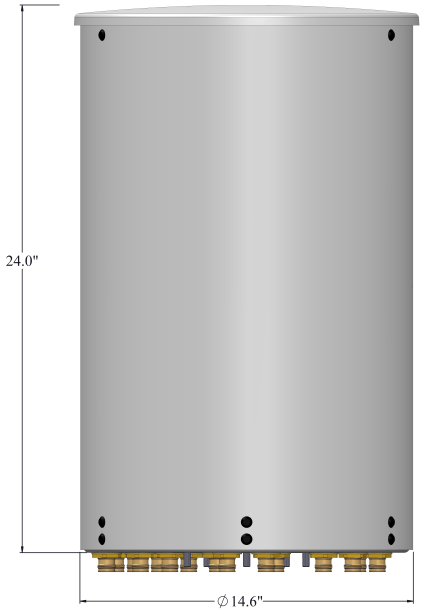
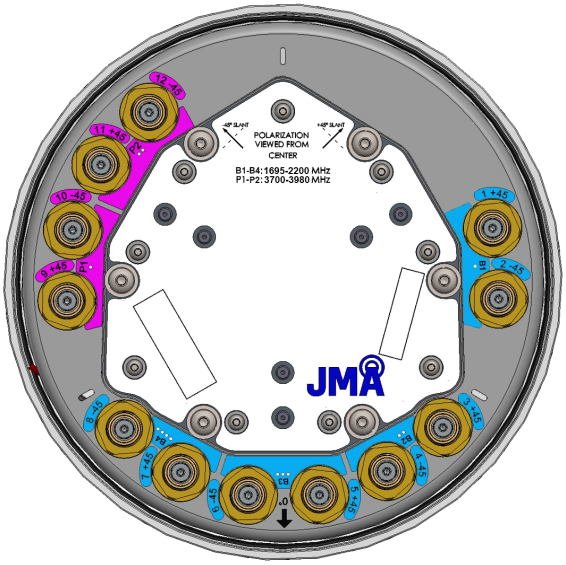
Mechanical specifications	
Dimensions height/diameter, inches (mm)	24.0/ 14.6 (609.6/ 370.8)
Antenna volume (cubic feet)	2.91
No. of RF input ports, connector type, and location	12 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	21 (9.53)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	47.6 (211)

Front view	End view
	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 details: 6 stud bolts for direct mount to the Universal Sleeve (SC-BKT-SLA)

Ordering information	
Antenna model	**Description**
CX12OHG236-2Cx (x represents the fixed down tilt value per 8 ports for 1695-2200 MHz	2ft 12 Port OMNI antenna 8MB 4CBRS/C-Band
	x= 2, 6, or 8 deg FET per 8 ports 1695-2200 MHz value x= FET value for ports 1-8

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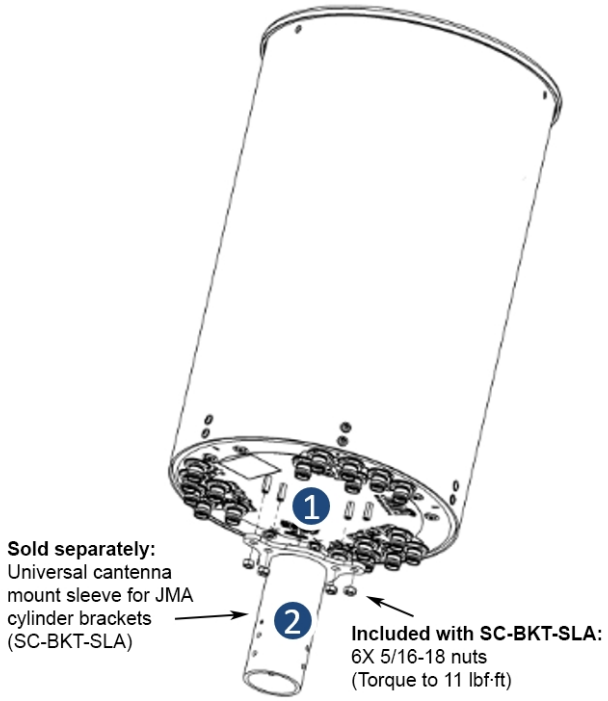
Notes on mounting brackets	Example bracket configuration
• The antenna comes with the bottom mount studs (marked as **1**) factory-installed. • JMA cylinder brackets are compatible with bottom mount via universal cantenna mount sleeve (marked as **2**) (SC-BKT-SLA), sold separately with JMA cylinder mounting systems. • To mitigate potential risk of PIM issues, the recommended torque values need to be applied.	

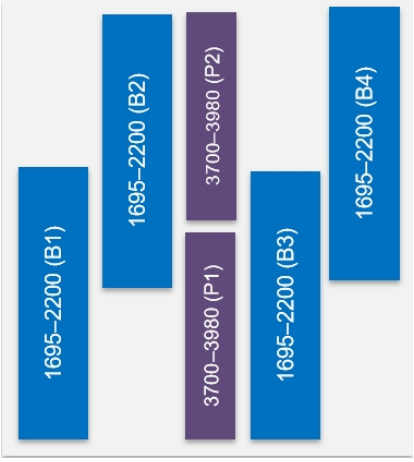
Small Cell solutions and mounting systems (sold separately)			
Side Arm Mounting System	SC-BKT-SA-(color)	Wide Diameter Pole	SC-BKT-WTPE-(color)
Steel Pole Mounting System	SC-BKT-SLA (color)		

Array topology

8 sets of radiating arrays

B1: 1695-2200 MHz
B2: 1695-2200 MHz
B3: 1695-2200 MHz
B4: 1695-2200 MHz
P1: 3700-3980 MHz
P2: 3700-3980 MHz

Band	RF port	Array
1695-2200	1-2	B1
1695-2200	3-4	B2
1695-2200	5-6	B3
1695-2200	7-8	B4
3700-3980	9-10	P1
3700-3980	11-12	P2



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