CX16OMI236-3Cxy

NWAV™ Cylinder Antenna

16-port cylinder antenna 1695-3980 MHz:

8 ports 1695-2690 MHz and 8 ports 3400-3980 MHz

- Small Cell multi-port PCS/AWS/CBRS/C-Band cylinder antenna
- Suitable for multi-carrier applications
- 4x4 or 8x8 MIMO-capable 1695-3980 MHz
- 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	1920-2280	2300-2690
Polarization	± 45°			
Gain, dBi (max)	6.8	7.0	7.2	8.1
Gain, dBi (average)	6.3±0.5	6.5±0.5	6.5±0.7	7.5±0.6
Horizontal beamwidth (HBW), degrees[1]	360°			
Vertical beamwidth (VBW), degrees[1]	31.0	29.0	27.1	22.8
Cross-polar discrimination over 360°[1]	15.8	16.2	16.5	17.1
Electrical downtilt (EDT), degrees	2° or 6° or 10°			
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, 13, 14, 15, 16	
Frequency bands, MHz	3400-3700	3700-3980
Polarization	± 45°	
Gain, dBi (max)	8.7	9.3
Gain, dBi (average)	8.3±0.4	8.5±0.8
Horizontal beamwidth (HBW), degrees[1]	360°	
Vertical beamwidth (VBW), degrees[1]	15.7°	15°
Cross-polar discrimination over 360°[1]	17.2	16.9
Electrical downtilt (EDT), degrees	4°	4°
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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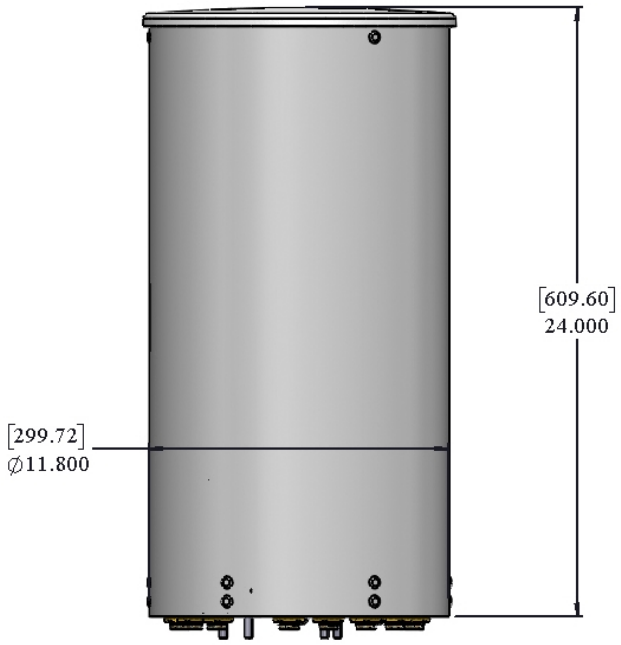
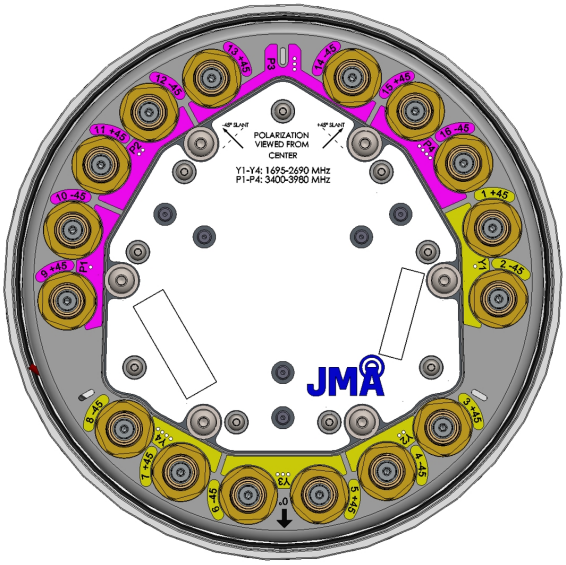
Mechanical specifications	
Dimensions height/diameter, inches (mm)	24.0/ 11.8 (609.6/ 299.7)
Antenna volume (cubic feet)	1.52
No. of RF input ports, connector type, and location	16 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	23 (10.43)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	23.6 (104.9)

Front view



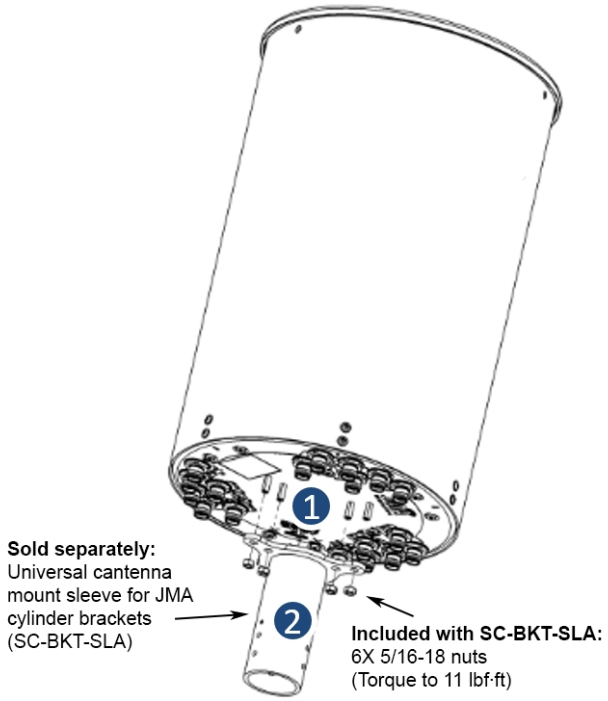
End view

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**
CX16OMI236-3Cxy (xy represents the fixed down tilt value per 4 ports for 1695-2690 MHz	2ft 16 Port OMNI antenna 8MB 8CBRS/C-Band
	xy= 2, 6, or 10 deg FET per 4 ports 1695-2700 MHz value x= FET value for ports 1-4 (Y1 & Y3) y= FET value for ports 5-8 (Y2 & Y4)

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

Y1: 1695-2690 MHz
Y2: 1695-2690 MHz
Y3: 1695-2690 MHz
Y4: 1695-2690 MHz
P1: 3400-3980 MHz
P2: 3400-3980 MHz
P3: 3400-3980 MHz
P4: 3400-3980 MHz

Band	RF port
1695-2690	1-2
1695-2690	3-4
1695-2690	5-6
1695-2690	7-8
3400-3980	9-10
3400-3980	11-12
3400-3980	13-14
3400-3980	15-16