

CX04OMI536-1C

NWAV™ X-Pol Quasi-omni Antenna

4-port 5.5 ft 360° antenna with RET-controlled HB:

4 ports 1695-2180 MHz

- Small Cell 4-port quasi-omni antenna
- Suitable for pole or building mount
- 4x4 MIMO high-band
- Internal beam forming
- RET control
- Suitable for LTE/UMTS/CDMA/GSM technologies



Electrical specification (minimum/maximum)	Ports 1, 2, 3, 4		
Frequency bands, MHz	1695-1880	1850-1990	1920-2180
Polarization	± 45°		
Average gain over all tilts, dBi	11.8	11.9	12.2
Horizontal beamwidth (HBW), degrees	360°		
Vertical beamwidth (VBW), degrees ¹	7.7°	7.2°	7.0°
Electrical downtilt (EDT) range, degrees	2-8° (RET)		
Cross-polar isolation, port-to-port, dB ¹	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		
Maximum input power per port, watts	125		
Maximum total input power, watts	500		

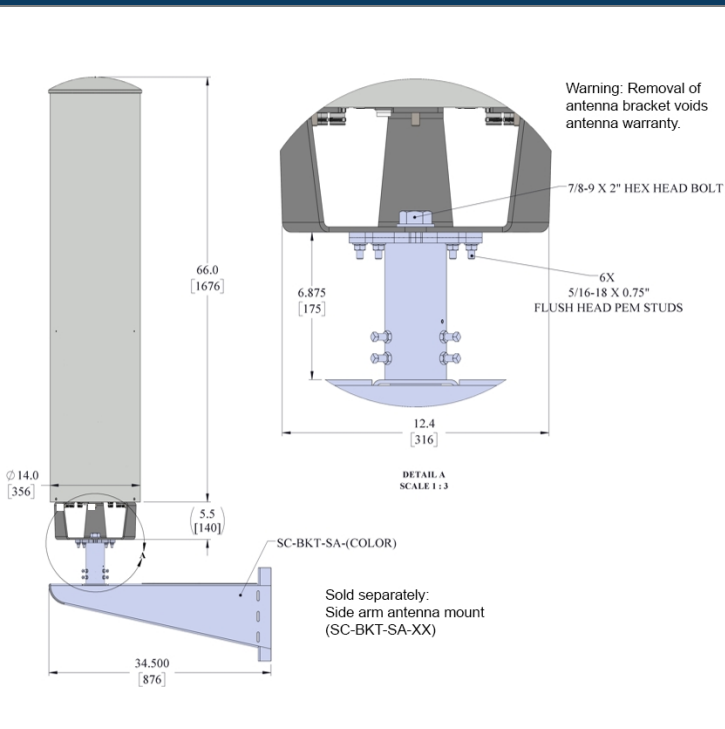
¹ Typical value over frequency and tilt

Ordering information	
Antenna model	Description
CX04OMI536-1C	5F X-Pol OMNI 360° 1695-2700 MHz 2-8° RET, 4.3-10
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

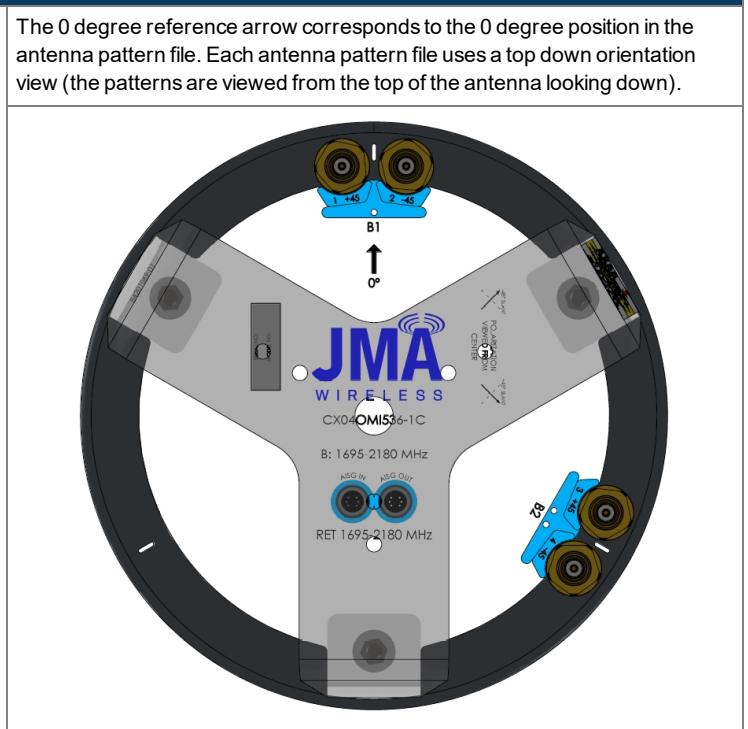
Mechanical specifications

Dimensions height/diameter, inches (mm)	66.0/ 14.0 (1676.4/ 355)
Antenna volume (cubic feet)	5.88
No. of RF input ports, connector type, and location	4 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)	58.0 (26.3)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	135.4 (602.3)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.73

Mechanical dimensions: example side arm mounting view



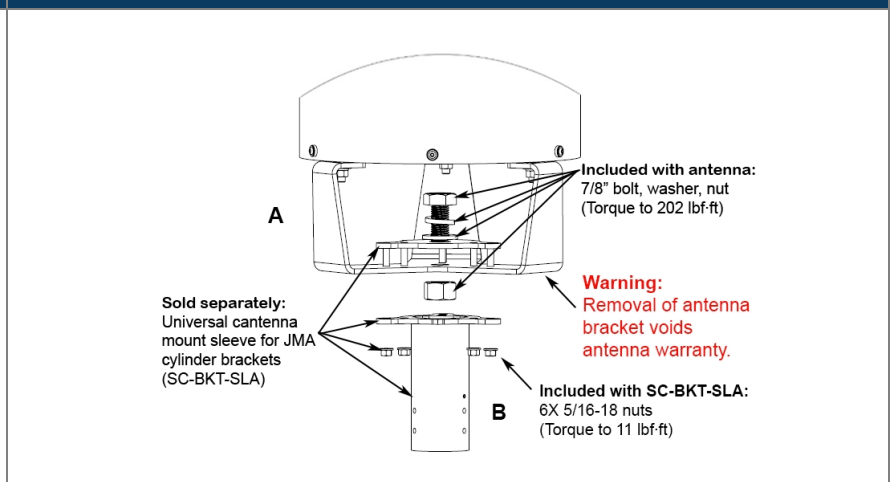
End view



Notes on cylinder brackets

- All CX* antennas come with the bottom mount bracket (marked as **A**) factory-installed (all factory testing is done with bracket attached)
- Hardware is included with each antenna to connect bottom bracket to different mounting systems.
- JMA cylinder brackets are compatible with bottom mount via universal antenna mount sleeve (marked as **B**), sold separately
- To mitigate potential risk of PIM issues, the recommended torque values need to be applied.

Mounting details



Small Cell solutions and mounting systems (sold separately)

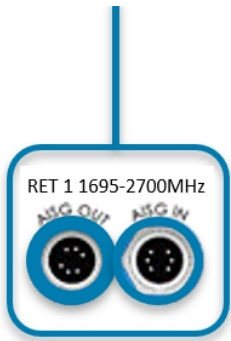
Side Arm Mounting System	SC-BKT-SA4-(color)	Wide Diameter Pole	SC-BKT-WTPE4-(color)
Steel Pole Mounting System	SC-BKT-SLA (color)		

Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	1 pair of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs high bands	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET topology

A single RET device controls each sector via the designated external AISG connector as shown below:

RET device	Band	RF port
1	1695-2180	1-4



Array topology

2 sets of radiating arrays per sector B1: 1695-2180 MHz B2: 1695-2180 MHz	<table border="1"> <thead> <tr> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>1695-2180</td> <td>1-2</td> </tr> <tr> <td>1695-2180</td> <td>3-4</td> </tr> </tbody> </table>	Band	RF port	1695-2180	1-2	1695-2180	3-4	
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1695-2180	1-2							
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