



# CX04OMI536-1C

NWAV™ X-Pol Quasi-omni Antenna

Product discontinued from

April 2025

Replacement model:

[CX20OMI536-1C](#)

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 <sup>1</sup>	7.7°	7.2°	7.0°
Electrical downtilt (EDT) range, degrees	2-8° (RET)		
Cross-polar isolation, port-to-port, dB <sup>1</sup>	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		

<sup>1</sup> 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	
<a href="#">AISG cables</a>	M/F cables for AISG connections
<a href="#">PCU-1000 RET controller</a>	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
	<p>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).</p>

Notes on cylinder brackets	Mounting details
<ul style="list-style-type: none"> <li>All CX* antennas come with the bottom mount bracket (marked as <b>A</b>) factory-installed (all factory testing is done with bracket attached)</li> <li>Hardware is included with each antenna to connect bottom bracket to different mounting systems.</li> <li>JMA cylinder brackets are compatible with bottom mount via universal antenna mount sleeve (marked as <b>B</b>), sold separately</li> <li>To mitigate potential risk of PIM issues, the recommended torque values need to be applied.</li> </ul>	

Small Cell solutions and mounting systems (sold separately)			
<a href="#">Side Arm Mounting System</a>	SC-BKT-SA-(color)	<a href="#">Wide Diameter Pole</a>	SC-BKT-WTPE4-(color)
<a href="#">Steel Pole Mounting System</a>	SC-BKT-SLA (color)		

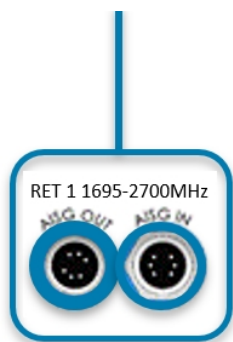
### Remote electrical tilt (RET 1000) information

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

Band	RF port
1695-2180	1-2
1695-2180	3-4

