

# CX24TRI265-5T

## NWAV™ X-Pol Tri-sector Cantenna

24-port 2 ft 65° tri-sectored Octo cantenna with RET-controlled HB:

12 ports 698-960 MHz and 12 ports 1695-2700 MHz

- X-Pol, Small Cell, octo-port antenna
- Suitable for pole or building mount
- 4x4 MIMO low-band and 4x4 MIMO high-band
- 3-sectored configuration
- Dependent RET control for HB ports
- Suitable for LTE/UMTS/CDMA/GSM technologies
- Cost-effective solution for neutral host locations




Electrical specification (minimum/maximum)	Ports 1-12				Ports 13-24			
Frequency bands, MHz	698-798	824-960	1695-1880	1850-1990	1920-2180	2300-2500	2500-2700	
Polarization	± 45°				± 45°			
Average gain over all tilts, dBi	6.1	6.0	13.7	14.4	13.9	14.3	15.2	
Horizontal beamwidth (HBW), degrees	92°	94°	61°	53°	80°	76°	65°	
Vertical beamwidth (VBW), degrees <sup>1</sup>	81°	68°	15.0°	14.9°	13.2°	11.5°	10.5°	
Electrical downtilt (EDT) range, degrees	0° (FET)				2-8° (RET)			
Cross-polar isolation, port-to-port, dB <sup>1</sup>	25	25	25	25	25	25	25	
Max VSWR / return loss, dB	1.5:1 / -14.0				1.5:1 / -14.0			
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153				-153			
Maximum input power per port, watts	30				30			
Maximum total input power, watts					720			

<sup>1</sup> Typical value over frequency and tilt

Ordering information	
Antenna model	Description
CX24TRI265-5T	2F X-Pol OCTO TRI 65° LB 0° FET, 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)	29.4/ 14 (746.8/ 355)
Antenna volume (cubic feet)	2.44
No. of RF input ports, connector type, and location	24 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)	38.6 (17.5)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	47.6 (211.5)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	0.96

Front 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>	<p><b>Included with antenna:</b> 7/8" bolt, washer, nut (Torque to 202 lbf-ft)</p> <p><b>Warning:</b> Removal of antenna bracket voids antenna warranty.</p> <p><b>Included with SC-BKT-SLA:</b> 6X 5/16-18 nuts (Torque to 11 lbf-ft)</p> <p><b>Sold separately:</b> Universal antenna mount sleeve for JMA cylinder brackets (SC-BKT-SLA)</p>

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-WTPE-(color)
<a href="#">Steel Pole Mounting System</a>	SC-BKT-SLA (color)		

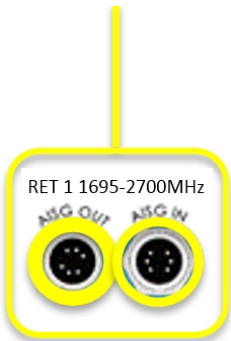
### Remote electrical tilt (RET 1000) information

<b>RET location</b>	Integrated into antenna
<b>RET interface connector type</b>	8-pin AISG connector per IEC 60130-9
<b>RET connector torque</b>	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
<b>RET interface connector quantity</b>	1 pair of AISG male/female connectors
<b>RET interface connector location</b>	Bottom of the antenna
<b>Total no. of internal RETs high bands</b>	3
<b>RET input operating voltage, vdc</b>	10-30
<b>RET max power consumption, idle state, W</b>	≤ 2.0
<b>RET max power consumption, normal operating conditions, W</b>	≤ 13.0
<b>RET communication protocol</b>	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, 2, 3	1695-2700	13-24



### Array topology

3 sets of radiating arrays

R1/R2: 698-960 MHz  
 Y1: 1695-2700 MHz  
 Y2: 1695-2700 MHz

Band	RF port
1695-2700	13-14, 17-18, 21-22
698-960	1-2, 5-6, 9-10
698-960	3-4, 7-8, 11-12
1695-2700	15-16, 19-20, 23-24

