



CX08OHG236-1Cx

NWAV™ Cylinder Antenna

8-port cylinder antenna 1695-2690 MHz

- High gain, high efficiency cylinder antenna to compliment 16T16R C-Band radios
- Eliminates the need to combine AWS/PCS
- 4T4R (or) 4T8R MIMO-capable
- Symmetrical pattern performance across all ports
- Excellent cross-polar discrimination for superior MIMO performance
- Array architecture optimized to provide maximum gain for 1695-2200 MHz

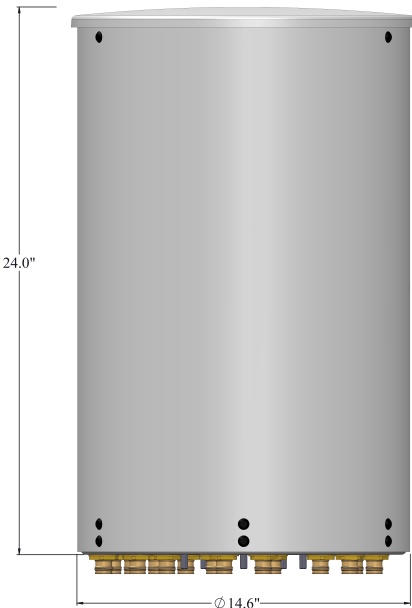
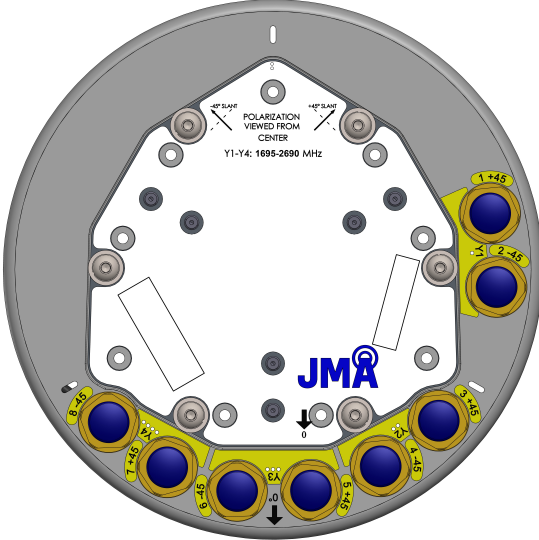


NWAV

| Electrical specification (min/max) | Ports 1, 2, 3, 4, 5, 6, 7, 8 | | | |
|---|------------------------------|----------------|----------------|----------------|
| Frequency bands, MHz | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2690 |
| Polarization | $\pm 45^\circ$ | | | |
| Gain, dBi (max) | 10.9 | 11.5 | 12.7 | 12.5 |
| Gain, dBi (average) | 10.4 ± 0.5 | 11.1 ± 0.4 | 12.2 ± 0.5 | 12.1 ± 0.4 |
| Horizontal beamwidth (HBW), degrees ¹ | 360° | | | |
| Vertical beamwidth (VBW), degrees ¹ | 14.5 | 13.5 | 12.0 | 11.1 |
| Cross-polar discrimination over 360° ¹ | 18.0 | 19.0 | 19.0 | 18.0 |
| Electrical downtilt (EDT), degrees | 2° or 5° 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 | | | |

¹ Typical value over frequency and tilt.

| 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 | 8 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 |
|--|--|
|  | <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>  <p>End view details: 6 stud bolts for direct mount to the Universal Sleeve (SC-BKT-SLA)</p> |

| Ordering information | |
|--|---|
| Antenna model | Description |
| CX08OHG236-1Cx (x represents the fixed down tilt value per 8 ports for 1695-2690 MHz) | 2ft 8 Port OMNI antenna 8MB x= 2, 5, or 8 deg FET per 8 ports (Y1, Y2, Y3, Y4) (1695-2690 MHz) value |



CX08OHG236-1Cx

NWAV™ Cylinder Antenna

| Notes on mounting brackets | Example bracket configuration |
|---|---|
| <ul style="list-style-type: none">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. | <p>Sold separately: Universal cantenna mount sleeve for JMA cylinder brackets (SC-BKT-SLA)</p> <p>Included with SC-BKT-SLA: 6X 5/16-18 nuts (Torque to 11 lbf-ft)</p> |

| 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

4 sets of radiating arrays

Y1: 1695-2690 MHz

Y2: 1695-2690 MHz

Y3: 1695-2690 MHz

Y4: 1695-2690 MHz

| Band | RF port |
|-----------|---------|
| 1695-2690 | 1-2 |
| 1695-2690 | 3-4 |
| 1695-2690 | 5-6 |
| 1695-2690 | 7-8 |

1695-2690 (Y1)

1695-2690 (Y2)

1695-2690 (Y3)

1695-2690 (Y4)