

# 2C6U4MT360X12Fwxys0

MULTI-BAND | OMNI | CANISTER ANTENNA | X-POL | FIXED TILT | 1219 MM (48.0 IN)

## Features

- Omni configuration with 24 connectors
- Ideal for Small Cell / DAS applications
- Available with 4.3-10 connectors
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome



## Connector Description

The antenna has 24 connectors located at the bottom.

|             |  |           |                    |              |  |           |                    |
|-------------|--|-----------|--------------------|--------------|--|-----------|--------------------|
| Low Band #1 | <span style="color:red">■</span> R1    | 696-896   | (2x) 4.3-10 Female | Mid Band #5  | <span style="color:yellow">■</span> Y3 | 1695-2700 | (2x) 4.3-10 Female |
| Low Band #2 | <span style="color:red">■</span> R2    | 696-896   | (2x) 4.3-10 Female | Mid Band #6  | <span style="color:yellow">■</span> Y4 | 1695-2700 | (2x) 4.3-10 Female |
| Mid Band #1 | <span style="color:blue">■</span> B1   | 1695-2180 | (2x) 4.3-10 Female | High Band #1 | <span style="color:yellow">■</span> Y5 | 3550-3700 | (2x) 4.3-10 Female |
| Mid Band #2 | <span style="color:blue">■</span> B2   | 1695-2180 | (2x) 4.3-10 Female | High Band #2 | <span style="color:yellow">■</span> Y6 | 3550-3700 | (2x) 4.3-10 Female |
| Mid Band #3 | <span style="color:yellow">■</span> Y1 | 1695-2700 | (2x) 4.3-10 Female | High Band #3 | <span style="color:purple">■</span> V1 | 5150-5925 | (2x) 4.3-10 Female |
| Mid Band #4 | <span style="color:yellow">■</span> Y2 | 1695-2700 | (2x) 4.3-10 Female | High Band #4 | <span style="color:purple">■</span> V2 | 5150-5925 | (2x) 4.3-10 Female |

| Electrical Characteristics | <span style="color:red">■</span> R1 <span style="color:red">■</span> R2 |            | <span style="color:blue">■</span> B1 <span style="color:blue">■</span> B2 |            |            | <span style="color:yellow">■</span> Y1 <span style="color:yellow">■</span> Y2 <span style="color:yellow">■</span> Y3 <span style="color:yellow">■</span> Y4 |           |            |           | <span style="color:yellow">■</span> Y5 <span style="color:yellow">■</span> Y6 | <span style="color:purple">■</span> V1 <span style="color:purple">■</span> V2 |
|----------------------------|---|------------|---|------------|------------|---|-----------|------------|-----------|---|---|
|                            | (2x) 696-896  |            | (2x) 1695-2180  |            |            | (4x) 1695-2700  |           |            |           | (2x)  | (2x)  |
| Frequency Bands (MHz)      | 696-806   | 806-896    | 1695-1880   | 1850-1990  | 1920-2180  | 1695-1880   | 1850-1990 | 1920-2200  | 2300-2700 | 3550-3700   | 5150-5925   |
| Polarization               | (2x) ±45°   |            | (2x) ±45°   |            |            | (4x) ±45°   |           |            |           | (2x) ±45°   | (2x) ±45°   |
| Horizontal Beamwidth       | 360°  | 360°       | 360°  | 360°       | 360°       | 360°  | 360°      | 360°       | 360°      | 360°  | 360°  |
| Vertical Beamwidth         | 37.3°±4.8°  | 32.8°±5.3° | 25.5°±7.7°  | 21.4°±1.8° | 21.0°±1.9° | 20.3°±4.3°  | 18.8°±3°  | 17.9°±2.1° | 15°±2.1°  | 28°±9.9°  | 24.2°±5.1°  |
| Gain (dBi)                 | 6.2 ± 0.9   | 6.9 ± 0.5  | 7.3 ± 1.3   | 8.4 ± 1    | 8 ± 1.2    | 9.4 ± 0.8   | 9.8 ± 0.8 | 9.8 ± 0.9  | 9.6 ± 1   | 6.3 ± 0.6   | Avg. 5.1<br>Max. 5.8  |
| Electrical Downtilt (°)    | (w) 0,4   |            | (x) 2,4,6   |            |            | (x) 2,4,6   |           |            |           | (y) 0   | (y) 0   |
| Impedance                  | 50Ω   |            | 50Ω   |            |            | 50Ω   |           |            |           | 50Ω   | 50Ω   |
| VSWR                       | ≤ 1.5:1   |            | ≤ 1.5:1   |            |            | ≤ 1.5:1   |           |            |           | ≤ 1.5:1   | ≤ 1.5:1   |
| Upper Sidelobe Suppression | > 12 dB   |            | > 11 dB   |            |            | > 12 dB   |           |            |           | > 14 dB   | N/A   |
| Isolation                  | Intraband   | 22 dB      | 25 dB   |            |            | 25 dB   |           |            |           | 25 dB   | 25 dB   |
|                            | Interband   | > 30 dB    | > 30 dB   |            |            | > 30 dB   |           |            |           | > 30 dB   | > 30 dB   |
| IM3 (2x20W carrier)        | < -153 dBc  |            | < -153 dBc  |            |            | < -153 dBc  |           |            |           | N/A   | N/A   |
| Input Power                | (4x) 500 W  |            | (4x) 300 W  |            |            | (8x) 300 W  |           |            |           | (4x) 100 W  | (4x) 50 W   |
| U-NII Compliant            | ---   |            | ---   |            |            | ---   |           |            |           | ---   | Yes   |
| Sector Configuration       | Omni  |            |   |            |            |   |           |            |           |   |   |
| Lightning Protection       | Direct Ground   |            |   |            |            |   |           |            |           |   |   |

## Mechanical Characteristics

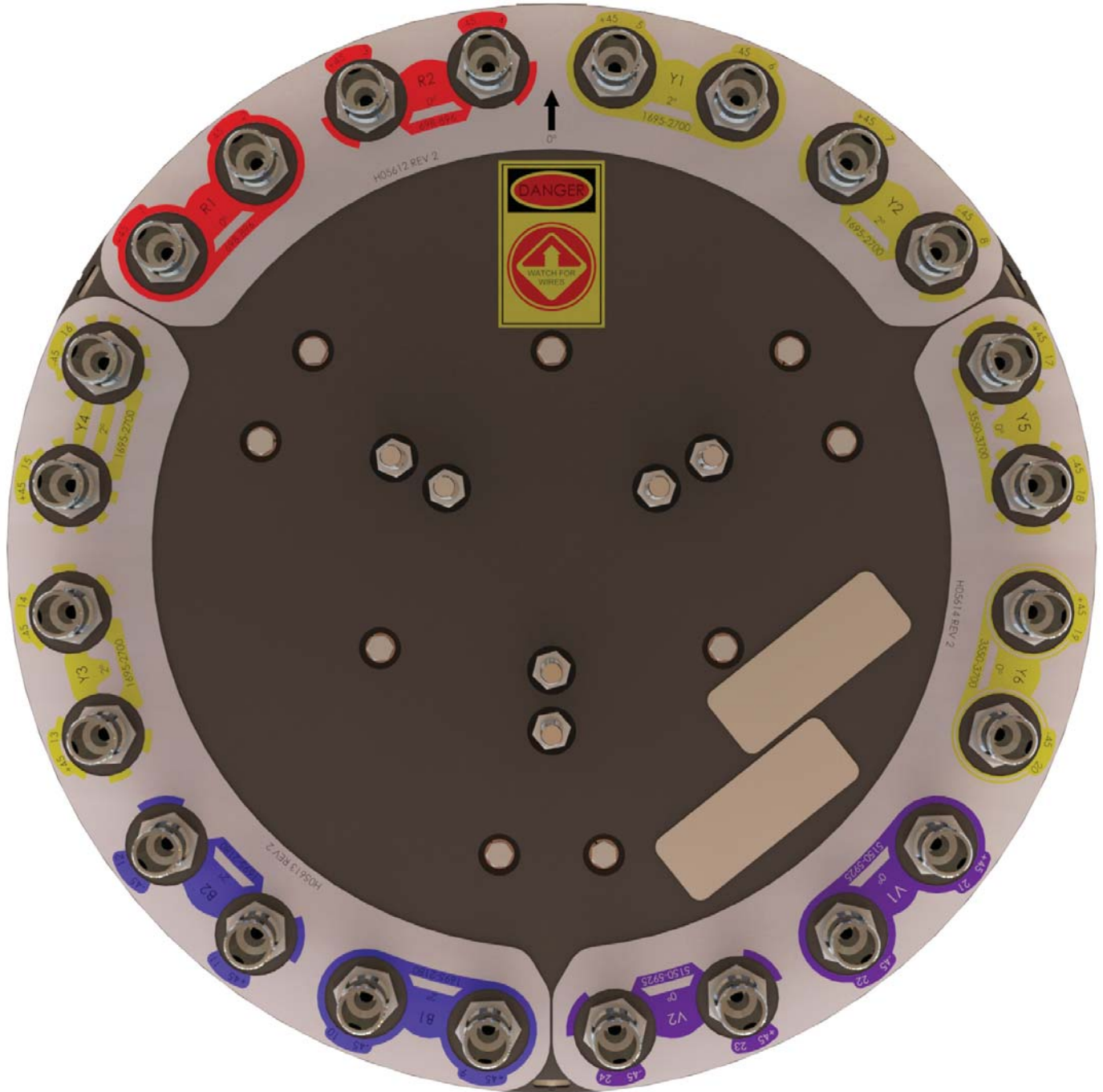
|                                     |                     |                     |
|-------------------------------------|---------------------|---------------------|
| Antenna Dimensions (Height x Diam)  | 1219 x 457 mm       | 48.0 x 18.0 in      |
| Weight without Mounting Bracket Kit | 25.4 kg             | 56 lbs              |
| Antenna Volume                      | 0.20 m <sup>3</sup> | 7.1 ft <sup>3</sup> |
| Survival Wind Speed                 | 241 km/hr           | 150 mph             |
| Wind Area                           | 0.56 m <sup>2</sup> | 6.0 ft <sup>2</sup> |
| Wind Load (160 km/hr or 100 mph)    | 466 N               | 106 lbf             |

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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Bottom View - Labeling

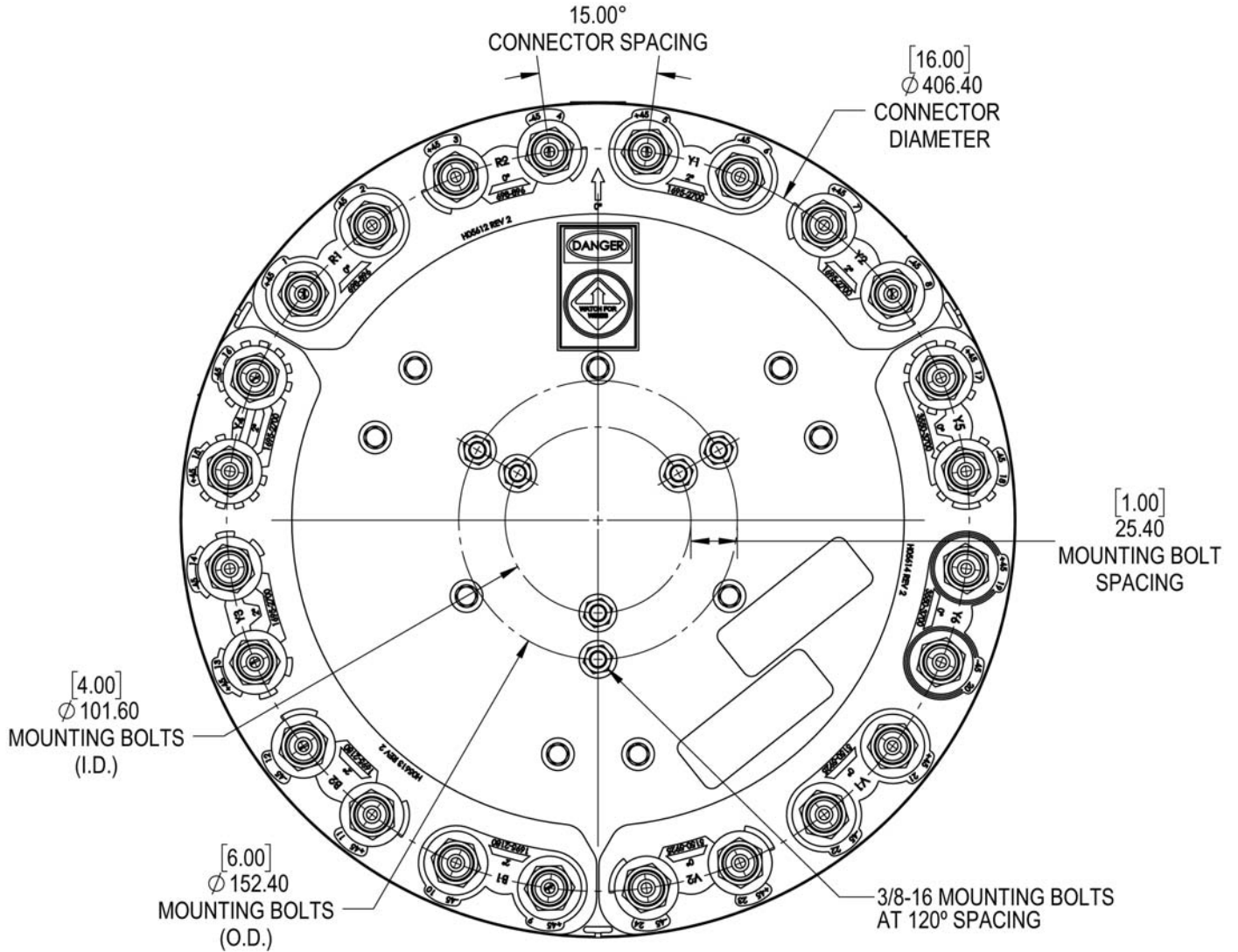


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Bottom View - Connector Diagram



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### Ordering Options

When ordering, select the Radome Color and Degree of Electrical Downtilt (**wxy**) for each band.

| Radome Color           | Electrical Downtilt Degree |   |                                      | Model Number                           |
|------------------------|----------------------------|---|--------------------------------------|--|
|                        | Low Band (w)<br>■ R1 ■ R2  | Mid Band (x)<br>■ B1 ■ B2 ■ Y1 ■ Y2 ■ Y3 ■ Y4 | High Band (y)<br>■ Y5 ■ Y6 ■ V1 ■ V2 |  |
| Grey<br>Pantone 420 C  | 0°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>020</b> s0           |
|                        | 0°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>040</b> s0           |
|                        | 0°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>060</b> s0           |
|                        | 0°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>AAA</b> s0           |
|                        | 4°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>420</b> s0           |
|                        | 4°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>440</b> s0           |
|                        | 4°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>460</b> s0           |
|                        | 4°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>BBB</b> s0           |
| Brown<br>Pantone 476 C | 0°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>020</b> s0 <b>BR</b> |
|                        | 0°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>040</b> s0 <b>BR</b> |
|                        | 0°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>060</b> s0 <b>BR</b> |
|                        | 0°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>AAA</b> s0 <b>BR</b> |
|                        | 4°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>420</b> s0 <b>BR</b> |
|                        | 4°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>440</b> s0 <b>BR</b> |
|                        | 4°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>460</b> s0 <b>BR</b> |
|                        | 4°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>BBB</b> s0 <b>BR</b> |
| Black<br>RAL 9011      | 0°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>020</b> s0 <b>BK</b> |
|                        | 0°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>040</b> s0 <b>BK</b> |
|                        | 0°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>060</b> s0 <b>BK</b> |
|                        | 0°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>AAA</b> s0 <b>BK</b> |
|                        | 4°                         | 2°  | 0°                                   | 2C6U4MT360X12F <b>420</b> s0 <b>BK</b> |
|                        | 4°                         | 4°  | 0°                                   | 2C6U4MT360X12F <b>440</b> s0 <b>BK</b> |
|                        | 4°                         | 6°  | 0°                                   | 2C6U4MT360X12F <b>460</b> s0 <b>BK</b> |
|                        | 4°                         | B1 and B2 = 6°<br>Y1 - Y4 = 2°                | 0°                                   | 2C6U4MT360X12F <b>BBB</b> s0 <b>BK</b> |




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### Mounting Kits

This antenna can be mounted using any of the following mounting kits. Mounting kits must be ordered separately.

| Side Mounting Bracket Kit  | Top Mounting Bracket Kit   | Utility Pole Mounting Bracket Kit  |
|--|--|--|
| CWT-MKS-SIDE   | CWT-MKS-TOP  | WB3X-MKS-01  |
|  |  |  |