

CommScope CMAX-OMF8-43-UWI53 Cell-Max(tm) Low PIM Omni MIMO In-building Antenna, 617-6000 MHz

SKU: ACC-CS-00019

MPN: CMAX-OMF8-43-UWI53

Description

The CommScope CMAX-OMF8-43-UWI53 Cell-Max™ Low PIM Omni MIMO In-building Antenna offers exceptional performance for in-building wireless applications, operating across a wide frequency range of 617-6000 MHz. This dual-polarised antenna supports 2x2 MIMO configurations, ensuring robust and reliable connectivity with its two input ports. Designed with high-quality ASA Plastic and Polycarbonate materials, it reliably functions within a temperature range of -40 °C to 60 °C, making it suitable for diverse environments.

With a low PIM rating of -153 dBc and a 50 Ω impedance, the antenna supports up to 100 W of input power, ensuring excellent signal integrity and minimal interference. Its peak gain ranges from 3.8 dBi to 6.0 dBi across various frequency bands, maintaining a consistent 360° azimuth beamwidth and a VSWR of 1.7:1, providing uniform coverage and performance.

Ideal for enhancing indoor wireless networks, this antenna is compliant...

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RF Specification

CommScope

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CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of ...

| | | | |
|------------------|---------|---------------|-----------------|
| Start Frequency: | 617 MHz | Polarisation: | Dual Pol (V, H) |
|------------------|---------|---------------|-----------------|

| | | | |
|-----------------|----------|------------------|----|
| Stop Frequency: | 6000 MHz | Input Impedance: | 50 |
|-----------------|----------|------------------|----|

| | |
|-------------------|-------|
| Max. Input Power: | 100 W |
|-------------------|-------|

RF Connectors

| Ports | RF Interface | Length |
|-------|---------------|--------|
| 1 | 4.3-10 Female | 500 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR | Azimuth | XPD |
|-------------|------------|-----------|-------------|---------|---------|---------|
| 617 MHz | 698 MHz | 3.8 dBi | > 17 dB | < 1.7:1 | 360° | > 15 dB |
| 698 MHz | 960 MHz | 4 dBi | > 11 dB | < 1.7:1 | 360° | > 17 dB |
| 1695 MHz | 2700 MHz | 4 dBi | > 11 dB | < 1.7:1 | 360° | > 18 dB |
| 3300 MHz | 4200 MHz | 6 dBi | > 11 dB | < 1.7:1 | 360° | > 19 dB |
| 4800 MHz | 6000 MHz | 6 dBi | > 11 dB | < 1.7:1 | 360° | > 19 dB |

Physical Specification

| | | | |
|-----------------------------|----------|----------------------------|---------------------------------|
| Input Ports: | 2 | Dimensions: | 65 x 207 (H x Dia) |
| MIMO: | 2x2 MIMO | Materials: | ASA Plastic, Polycarbonate (PC) |
| Min. Operating Temperature: | -40 °C | Weight: | 0.6 kg |
| Max. Operating Temperature: | 60 °C | Compliance/Certifications: | ISO 9001 Quality Management |
| PIM, 3rd Order: | -153 dBc | RoHS | |

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