

CommScope CMAX-D-43-UW-I53 Low PIM Directional In-building Antenna, 617-960 MHz, 1695- 2700, 3300-3800 and 4900-6000MHz

SKU: ACC-CS-00017

MPN: CMAX-D-43-UW-I53

Description

The CommScope CMAX-D-43-UW-I53 is a robust Low PIM Directional In-building Antenna designed for efficient wireless communication across a wide frequency range of 617 MHz to 6000 MHz. This panel antenna is compact, measuring 301 x 296 x 126 mm and weighing 2.4 kg, constructed from durable Polyvinyl Chloride (PVC) to withstand temperatures from -40 °C to 60 °C.

Engineered for superior performance, the antenna offers a vertical polarisation with a 3rd Order PIM rating of -153 dBc, ensuring minimal interference and optimal signal integrity. It supports a 50 Ω impedance and handles up to 50 W input power. The antenna provides a peak gain ranging from 4.8 dBi to 7.2 dBi across its operational bands, with varying azimuth beamwidths for targeted coverage, making it suitable for diverse in-building applications.

Equipped with a single 4.3-10 Female RF connection via a 420 mm 0.141 Semi-Rigid cable, this antenna ensures reliable connectivity...

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RF Specification

| | | | |
|-------------------|----------|------------------|--------------|
| Start Frequency: | 617 MHz | Polarisation: | Vertical (V) |
| Stop Frequency: | 6000 MHz | Input Impedance: | 50 |
| Max. Input Power: | 50 W | | |

RF Connectors

| Ports | RF Interface | Cable Series | Length |
|-------|---------------|------------------|--------|
| 1 | 4.3-10 Female | 0.141 Semi-Rigid | 420 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR | Azimuth |
|-------------|------------|-----------|-------------|---------|---------|
| 617 MHz | 698 MHz | 5.8 dBi | > 10.9 dB | < 1.8:1 | 90° |
| 698 MHz | 960 MHz | 5.8 dBi | > 10.9 dB | < 1.8:1 | 86° |
| 1710 MHz | 2700 MHz | 7.2 dBi | > 10.9 dB | < 1.8:1 | 58° |
| 3300 MHz | 3800 MHz | 6.5 dBi | > 11.7 dB | < 1.7:1 | 60° |
| 4900 MHz | 6000 MHz | 4.8 dBi | > 10.9 dB | < 1.8:1 | 68° |

Physical Specification

| | | | |
|-----------------------------|----------------|----------------------------|-----------------------------|
| Subtype: | Panel / Sector | Dimensions: | 301 x 296 x 126 |
| Input Ports: | 1 | Materials: | Polyvinyl Chloride (PVC) |
| MIMO: | 1x1 SISO | Weight: | 2.4 kg |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | ISO 9001 Quality Management |
| Max. Operating Temperature: | 60 °C | RoHS | |
| PIM, 3rd Order: | -153 dBc | | |

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