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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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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 ...

RF Specification

Start Frequency
617 MHz
Stop Frequency
6000 MHz
Max. Input Power
100 W
Polarisation
Dual Pol (V, H)
Input Impedance
50 Ω
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

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	XPD
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
MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
60 °C
PIM, 3rd Order
-153 dBc
Dimensions
65 x 207 (H x Dia)
Materials
ASA Plastic, Polycarbonate (PC)
Weight
0.6 kg
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS

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