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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  $\Omega$  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](#)

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  $\Omega$

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

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RoHS

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