

CMAX-OMF8-43-UWI53



Cell-Max™ Low PIM Omni MIMO In-building Antenna, 617-6000 MHz

Product Classification

Product Type	In-building antenna
Product Brand	Cell-Max™

General Specifications

Application	Indoor
Antenna Type	Omni
Antenna Array Characteristic	MIMO 2x2
Polarization	Linear Horizontal
Color	White (RAL 9016)
Mounting	Thru-hole ceiling mount (optional)
Mounting Note	For antenna installation on metal ceilings, please contact your local CommScope representative
Number of Ports	2
Pigtail Cable	670-141SXE, plenum rated
Radome Material	ASA+PC, UV stabilized
RF Connector Interface	4.3-10 Female

Dimensions

Height	65 mm 2.559 in
Pigtail Length	500 mm 19.685 in
Outer Diameter	207 mm 8.15 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2700 MHz 3300 – 4200 MHz 4800 – 6000 MHz 617 – 698 MHz 698 – 960 MHz
Electrical Note	Values typical, unless otherwise stated

CMAX-OMF8-43-UWI53

Electrical Specifications

Frequency Band, MHz	617–698	698–960	1695–2700	3300–4200	4900–6000
Gain, dBi	3.8	4	4	6	6
Beamwidth, Horizontal, degrees	360	360	360	360	360
Isolation, Cross Polarization, dB	15	17	18	19	19
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153		
Input Power per Port, maximum, watts	100	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
617–698 MHz	1.798	10.9	1.577	13
698–960 MHz	1.851	10.5	1.671	12
1695–2700 MHz	1.851	10.5	1.671	12
3300–4200 MHz	1.851	10.5	1.671	12
4900–6000 MHz	1.798	10.9	1.536	13.5

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 95%

Packaging and Weights

Height, packed	200 mm 7.874 in
Width, packed	165 mm 6.496 in
Length, packed	210 mm 8.268 in
Weight, gross	0.7 kg 1.543 lb
Weight, net	0.6 kg 1.323 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

CMAX-OMF8-43-UWI53

UK-ROHS

Compliant

