

Hex-Port Antenna

CMA-BTLBHH/6516/20/20

XXX-Pol: 698-896 / 1710-2180 / 1710-2180

Electrical specification:

Frequency range per input (MHz)	2 x 698-896		4 x 1710-2180	
Frequency band definitions (MHz)	698-806	806-896	1710-1990	1920-2180
Polarization	Dual linear $\pm 45^\circ$		2 x Dual linear $\pm 45^\circ$	
Gain (dBi)	15.9	16.0	20.0	20.4
Horizontal = 3 dB beamwidth ($^\circ$) $\pm 2^\circ$	70	72	61	60
Vertical = 3 dB beamwidth ($^\circ$) $\pm 0.5^\circ$	12.1	10.8	5.1	4.5
Adjustable electrical downtilt	0° - 10°		2° - 8°	
Front to back ratio (dB) $\pm 30^\circ$ sector	>25		>26	
First upper sidelobe suppression	0°, 5°, 10° >20, >18, >16		2°, 5°, 8° >18, >17, >16	
First nullfill below horizon (dB)	>20		<20	
Cross-polar discrimination $\pm 0^\circ$ (dB)	>20		>20	
Cross-polar discrimination $\pm 60^\circ$ (dB)	>10		>10	
VSWR	<1.5:1		<1.5:1	
Isolation between inputs (dB)	>28		>30	
Isolation between bands (dB)			>30	
Antenna Efficiency*	93 %		92 %	
Inter modulation, IM3 (dBC)			>153 @2x43 dBm	
Inter modulation, IM7 (dBC)			>163 @2x46 dBm	
Nominal impedance			50 Ω	
Max power per input			500 W	

Mechanical specification:

Connectors	6 x 7/16 female
Connector position	Bottom
Lightning protection	DC grounded
Height/Width/Depth mm (in)	1830 (72.0) / 412 (16.2) / 200 (7.8)
Antenna weight kg(lb)	40 (88)

Wind load at 42 m/s (94 mph)

Frontal:	746 N
Lateral:	242 N
Rear:	914 N
	67 m/s (150 mph)

Survival wind speed

Colour radome	Light Grey, RAL 7035
Radome material	ASA

Mounting hardware:

Mounting bracket	2
Bracket weight (complete)	7.0kg (15.6 lb)
Pole diameter	45-120 mm (1.8-4.7 in)
Tilt bracket	0° - 5° mechanical

Product Numbers:

CMA-BTLBHH/6516/20/20/MET	110305
CMA-BTLBHH/6516/20/20/RET	110310

