

Applications

- Upgrade of data-throughput or capacity constrained sites
- Spectrum limited markets
- Deferral of CDMA/EVDO or UMTS/HSPA+ carrier adds



SPECIFICATIONS

Antennas

Special Events Multibeam Antenna

MBA9-6F-U-H3

Electrical

Ports		18 × Mid-Band Ports	s for 1710-2360 MHz	
Frequency Range	1850-1990 MHz	1710-1755 MHz	/2110-2155 MHz	2305-2360 MHz
Gain	23.9 dBi	22.8 dBi	24.7 dBi	24.6 dBi
Azimuth Beamwidth (-3dB)	9 × 6°	9 × 7°	9 × 5°	9 × 4.8°
Azimuth Beam Crossover	-10 dB	-10 dB	-10 dB	-10 dB
Elevation Beamwidth (-3dB)	11.0°	12.5°	10.4°	10.3°
Electrical Downtilt	6°	6°	6°	6°
Elevation Sidelobes (1st Upper)	< -18 dB	< -18 dB	< -18 dB	< -17 dB
Front-to-Back Ratio @180°	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Interbeam Co-Pol Isolation	> 15 dB	> 15 dB	> 15 dB	> 15 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continuous Wave Per Port	200 watts	200 watts	200 watts	200 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground

Dimensions (L×W×D)	33.1×65.3×7.8 in (840×1658×197 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load ¹	442 lbf @ 100 mph 1967 N @ 161 kph
Side Wind Load ¹	23 lbf @ 100 mph 104 N @ 161 kph
Effective Projective Area (EPA), Front ¹	17.2 ft ² (1.6 m ²)
Weight *	99.2 lbs (45.0 kg)
RF Connector	18 × 4.3-10 female
Mounting Pole	2x 2 to 5 in (5 to 12 cm)
Mounting Pole Spacing	38.4 in (976 mm) Center to Center

Bottom View



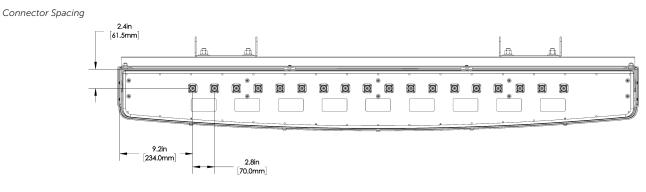


Antennas

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Special Events Multibeam Antenna

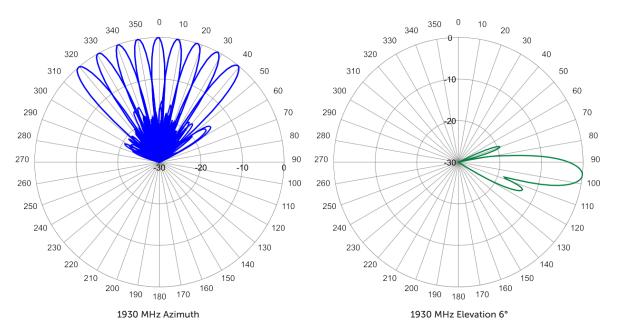
MBA9-6F-U-H3



Typical Antenna Patterns

Mechanical

For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com





ORDERING

Antennas

Special Events N	Aultibeam Antenna	MBA9-6F-U-H3
Parts & Accessories		
MBA9-6F-U-H3-K		e-Beam Special Events Ultra-Wideband with nd two MBK-03 mounting brackets
MBK-03 (x2)	Mounting bracket kit (top ar adjustment	nd bottom) with 0° to 12° mechanical tilt



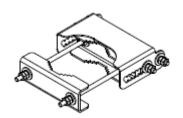


Antennas

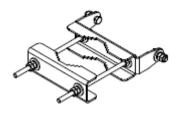
Mounting Bracket Kit

MBK-03

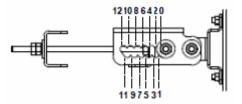
Mechanical	
Weight	9.8 lbs (4.4 kg)
Hinge Pitch	13 in (330 mm)
Mounting Pole Dimension	2 to 5 in (5 to 12 cm)
Fastener Size	M10
Installation Torque	15 ft·lbs (20 N·m)
Mechanical Tilt Adjustment	0° - 12°



MBK-03 Top Adjustable Bracket



MBK-03 Bottom Fixed Bracket



MBK-03 Top Adjustable Bracket Side View

www.cciproducts.com extending wireless performance

5



Antennas

STANDARDS & CERTIFICATIONS

Special Events Multibeam Antenna

MBA9-6F-U-H3

Standards & Compliance

Environmental	EC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5,
	EC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14,
	EC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29,
	EC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64,
(GR-63-CORE 4.3.1, EN 60529, IP 24

Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001



