

Anten MultiPort Series

HexPort Multi-Band Antenna

HPA-65I-BWW-H4

DATA SHEET



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HexPort Multi-Band Antenna

SPECIFICATIONS

HPA-65I-BWW-H4

Electrical					
Ports	2 × Low Band Ports for 698-896 MHz		4 × High Band Ports for 1695-2180 MHz		80 MHz
Frequency Range	698-806 MHz 824-896 MHz		1850-1990 MHz	1695-1755/2110-2180 MHz	
Gain (dBi)	13.3	14.0	15.7	15.1	16.3
Azimuth Beamwidth (-3dB) (°)	67	63	61	67	61
Elevation Beamwidth (-3dB) (°)	18.4	15.6	8.9	10.0	7.7
Electrical Downtilt (°)	0 to 10	0 to 10	0 to 8	0 to 8	0 to 8
Elevation Sidelobes (1st Upper) (dB)	< -20	< -20	< -20	< -20	< -20
Front-to-Back Ratio @180° (dB)	> 28	> 30	> 30	> 30	> 30
Cross-Polar Discrimination (at Peak) (dB)	> 23	> 20	> 25	> 24	> 25
Cross-Polar Port-to-Port Isolation (dB)	> 25	> 25	> 25	> 25	> 25
Voltage Standing Wave Ratio (VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W) (dBc)	≤ -153	≤ -153	≤ -153	≤ -153	≤ -153
Input Power Continuous Wave (CW)	500 watts	500 watts	300 watts	300 watts	300 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground

BASTA Electrical Specifications*					
Frequency Range	698-806 MHz	824-896 MHz	1850-1990 MHz	1695-1755/2	110-2180 MHz
Gain over all Tilts (dBi)	13.3	14.0	15.7	15.1	16.3
Gain over all Tilts Tolerance (dB)	0.4	0.3	0.4	0.3	0.3
Gain at Low-tilt (dBi)	13.3	14.1	15.6	15.0	16.2
Gain at Mid-tilt (dBi)	13.3	14.0	15.8	15.1	16.4
Gain at High-tilt (dBi)	13.2	13.9	15.7	15.1	16.3
Azimuth Beamwidth Tolerance (°)	3.7	5.6	3.0	2.5	2.6
Elevation Beamwidth Tolerance (°)	1.6	0.9	0.5	0.4	0.3
Electrical Downtilt Deviation (°)	0.8	0.7	0.8	0.6	0.5
Front-to-Back Ratio over \pm 20° (dB)	22.3	21.4	20.5	20.0	21.9
First Upper Sidelobe Suppression (dB)	16.2	18.3	18.7	18.5	19.1
Upper Sidelobe Suppression peak to 20°(dB)	N/A	19.2	18.4	20.4	18.0
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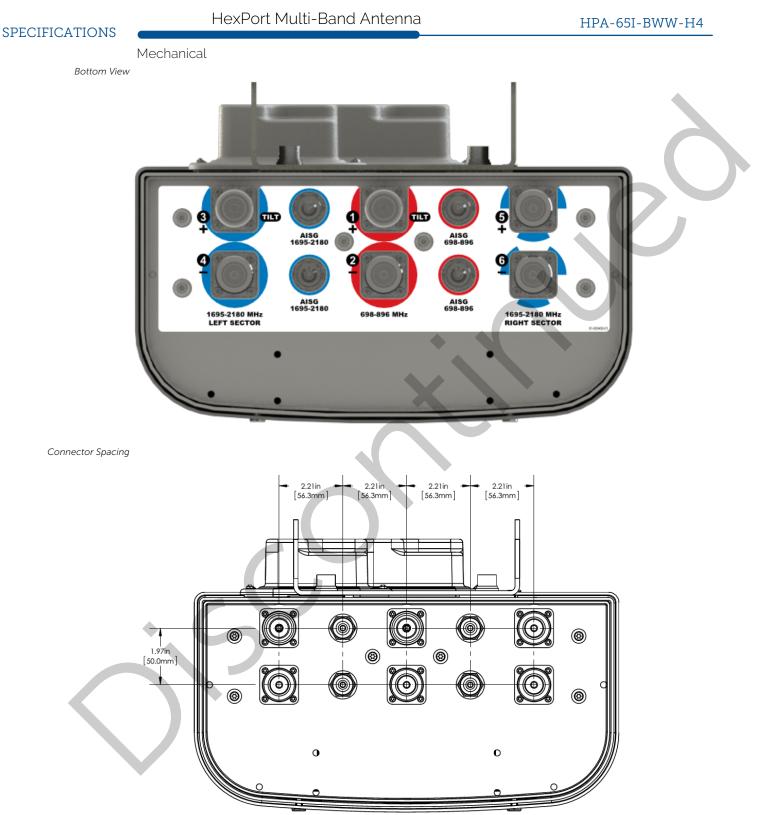
* Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6. All specifications are subject to change without notice.

Mechanical	
Dimensions (L×W×D)	48.3×14.4×7.3 in (1228×366×185 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	153 lbs (682 N) @ 100 mph (161 kph)
Side Wind Load	86 lbs (385 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	6.0 ft ² (0.6 m ²)
Weight *	37.5 lbs (17.0 kg)
Connector	$6 \times 7-16$ DIN female long neck
Mounting Pole	2 to 5 in (5 to 12 cm)

* Weight excludes mounting







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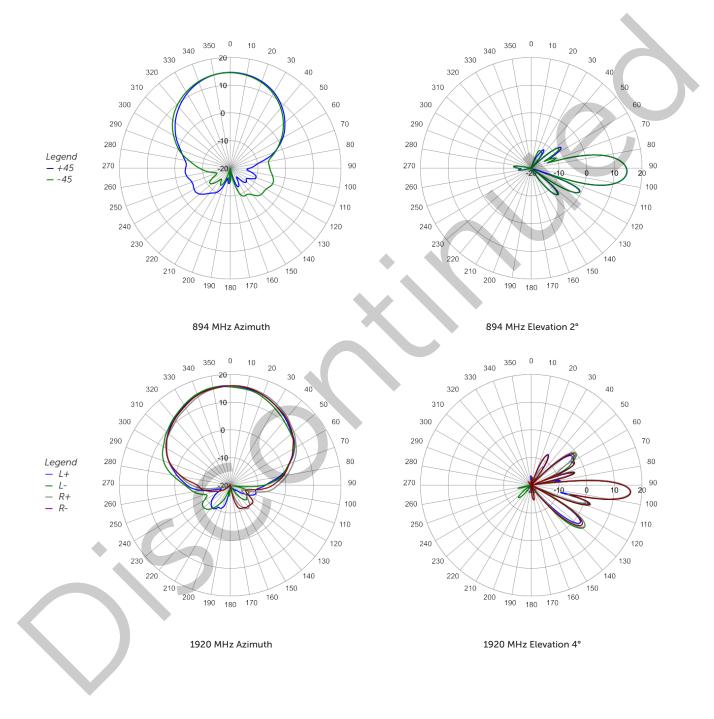
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Typical Antenna Patterns

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



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HexPort Multi-Band Antenna

ORDERING

Parts & Accessories			
HPA-65I-BWW-H4	Four foot (1.2 m) HexPort antenna with 65° azimuth beamwidth and 2 factory installed BSA-RET400 RET actuators, and MBK-02 mounting bracket		
	Mounting bracket kit (top and bottom) with 0° to 10° mechanical tilt adjustment		
	Optional triple mount mast bracket for mounting up to three 65° antennas on a pole (or mast).		
BSA-RET400	Remote electrical tilt actuator		

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Mounting Bracket Kit

ACCESSORIES	Mo	ounting Bracket Kit	MBK-02
ACCESSORIES	Mechanical		
	Weight	9.8 lbs (4.4 kg)	
		31.5 in (800 mm)	
	Mounting Pole Dimension		
	Fastener Size	M10	
	Installation Torque	15 ft·lbs (20 N·m)	
	Mechanical Tilt Adjustment	0° - 10°	
	MBK-02 Top Adju MBK-02 Bottom		

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ACCESSORIES	Triple Mount Cluster Bracket	TM-01
ACCESSORIES	Mechanical	
	Weight 21.6 lbs (9.8 kg)	
	Fastener Size M10	
	Installation Torque 40 ft·lb (54 N·m)	7.2. ((200)
	Hinge Pitch (Vertical) 13.0 in (330 mm) or 31.5 in (800 mm) or 4 Mechanical Tilt Adjustment None	7.2 in (1200 mm)
		()
	TM-01 Bracket	D1 Mounting Brackets (on Pole)
	3 - 65° Antennas Mounted on Pole using TM-01 Brackets (Iso	o and Top Views)

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ACCESSORIES	Internal Remote Electrical Tilt (iRET)	BSA-RET400
	General Specifications	
	Part Number BSA-RET400 Protocols AISG 2.0 RET Type Type 17	
	Adjustment Cycles >10,000 cycles Tilt Accuracy ±0.1°	
	Temperature Range -40° C to 70° C	
	Electrical	
	Data Interface Signal DC Input Voltage 10-30 Vdc	
	Current Consumption Tilt100 mA at Vin=24 (500 mA MAX)Current Consumption Idle10 mA at Vin=24	
	Mechanical	
	Dimensions (L×W×D)7.0×5.3×1.8 in. (179×134×45 mm)HousingASA/ABS/AluminumWeight1.3 lbs (0.6 kg)	
	ASA= Acrylic Styrene Acryle ABS=Acrylanitrile Butadiene S	
	179	45

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Standards & Compliance

Safety	EN 60950-1, UL 60950-1
Emission	EN 55022
Immunity	EN 55024
Environmental	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, GR-63-CORE 4.3.1, EN 60529, IP 24

Certifications

Antenna Interface Standards Group (AISG), Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001





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Revision 1.0