

Anten MultiPort Series

Ten Port Multi-Band Antenna

DPA-65R-BUUUU-H8B

DATA SHEET







SPECIFICATIONS

DPA-65R-BUUUU-H8B

Electrical						
Ports	2 Low Band Ports	for 698-896 MHz		8 High Band Ports	for 1695-2360 MHz	
Frequency Range	698-806 MHz	824-896 MHz	1850-1990 MHz	1695-1780 / 2	110-2180 MHz	2305-2360 MHz
Gain Peak	15.6 dBi	16.1 dBi	16.6 dBi	16.1 dBi	16.9 dBi	17.2 dBi
Gain Average*	15.3 dBi	15.8 dBi	16.1 dBi	15.6 dBi	16.6 dBi	16.8 dBi
Azimuth Beamwidth (-3dB)	66°	67°	68°	69°	62°	59°
Elevation Beamwidth (-3dB)	9.3°	7.9°	6.9°	8.1°	6.4°	6.1°
Electrical Downtilt	2° to 10°	2° to 10°	0° to 10°	0° to 10°	0° to 10°	0° to 10°
Elevation Sidelobes (1st Upper)	< -16 dB	< -17 dB	< -17 dB	< -18 dB	< -17 dB	< -17 dB
Front-to-Back Ratio @180°	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Front-to-Back Ratio over <u>+</u> 20°	> 30 dB	> 30 dB	> 27 dB	> 27 dB	> 27 dB	> 27 dB
Cross-Polar Discrimination (at Peak)	> 22 dB	> 25 dB	> 24 dB	> 26 dB	> 22 dB	> 26 dB
Cross-Polar Discrimination (at \pm 60°)	> 18 dB	> 19 dB	> 17 dB	> 17 dB	> 17 dB	> 16 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	500 watts	500 watts	300 watts	300 watts	300 watts	300 watts
Polarization	Dual Pol 45°	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	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground
*Per BASTA specification of Gain over all Tilts						

All specifications are subject to change without notice.

Mechanical	
Dimensions (L×W×D)	95.9×14.4×8.6 in (2437×366×218 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	340 lbs (1514 N) @ 100 mph (161 kph)
Side Wind Load	225 lbs (1001 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	13.3 ft ² (1.2 m ²)
Weight *	66.1 lbs (30.0 kg)
RET System Weight	5.0 lbs (2.3 kg)
Connector	10 × 4.3-10 Female
Mounting Pole	2 to 5 in (5 to 12 cm)

* Weight excludes mounting and RET

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SPECIFICATIONS

Bottom View 7 0 Ð TOP LEFT 1695-2360 MHz BOTTOM LEFT 1695-2360 MHz TOP RIGHT 1695-2360 MHz BOTTOM RIGHT 1695-2360 MHz 698-896 MHz Connector Spacing 8.8in [224.0mm] 3X 2.2in (TYP) [56.0mm] 0 0 巨 Ø 6 0 \bigcirc () ۲ 2.0in [50.0mm] Ø 0 0 \bigcirc ۲ 0

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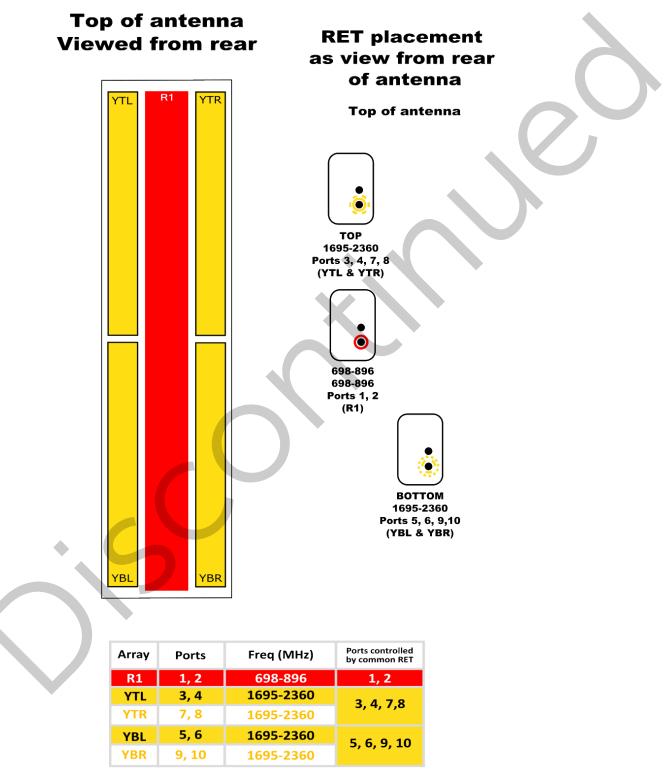




Mechanical

SPECIFICATIONS

RET/Element Configuration

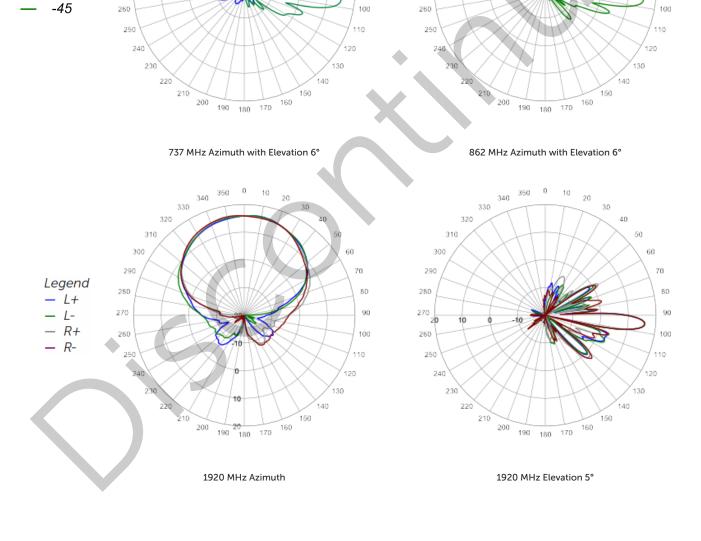


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Revision 1.0 D-DS-DPA65RBUUUUH8B-V1.0-180710

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Revision 1.0



Typical Antenna Patterns

Ten Port Multi-Band Antenna

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



Legend

+45

SPECIFICATIONS



DPA-65R-BUUUU-H8B

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ORDERING



Ten Port Multi-Band Antenna

DPA-65R-BUUUU-H8B

F	Parts & Accessories	
	DPA-65R-BUUUU-H8B-K	8 foot (2.4 m) Ten Port antenna with 65° azimuth beamwidth, 4.3-10 female connectors, 3 factory installed BSA-RET200 RET actuators and MBK-01 mounting kit
	MBK-01	Mounting bracket kit (top and bottom) with 0° to 10° mechanical tilt adjustment
	BSA-RET200	Remote electrical tilt actuator
	HPA-CBK-AG-RRU	HexPort antenna to RRU AISG cable kit
	HPA-CBK-RA-AG-RRU	HexPort antenna to RRU AISG right angle cable kit

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Mounting Bracket Kit

ACCESSORIES	Mounting Bracket Kit	MBK-01
TICOLOUCIULU	Mechanical	
	Weight 12.6 lbs (5.7 kg)	
	Hinge Pitch 47.25 in (1200 mm)	
	Mounting Pole Dimension 2 to 5 in (5 to 12 cm) Fastener Size M12	
	Installation Torque 40 ft·lb (54 N·m)	
	Mechanical Tilt Adjustment 0° - 10°	
	MBK-01 Top Adjustable Bracket MBK-01 To	op Adjustable Bracket Side View
	MBK-01 Bottom Fixed Bracket	

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CESSORIES	Remote Electrical Tilt Actuator (RET)	BSA-RET200
	General Specifications	
	Part Number BSA-RET200	
	Protocols AISG 2.0	
	RET Type Type 1	
	Adjustment Cycles >10,000 cycles	
	Tilt Accuracy ±0.1°	
	Temperature Range -40° C to 70° C	— ()
	Electrical	\cap
	Data Interface Signal DC	
	Input Voltage 10-30 Vdc	
	Current Consumption Tilt 120 mA at Vin=24	
	Current Consumption Idle 55 mA at V _{in} =24	
	Hardware Interface AISG-RS 485 A/B	
	Input ConnectorMale 1 × 8 pin Daisy ChainOutput ConnectorFemale 1 × 8 pin Daisy Chain	
	Mechanical	
	Dimensions (LxWxD) 8.0×5.0×2.0 in. (213×135×51 mm)	
	Housing ASA/ABS/Aluminum	
	Weight 1.7 lbs (0.75 kg)	
	ASA= Acrylic Styrene Acr ABS=Acrylanitrile Butadiene	
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AISG Cable Kit

HPA-CBK-AG-RRU

G-RRU	
2 2 x 8 pin IEC 60130-9 Straight male/straight female	
(2.5 N·m)	
in (18.5 mm)	
M16×0.75	
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Ingress Protection IEC 60529:2001, IP67

Revision 1.0

IEC 60529:2001, IP67



HPA-CBK-RA-AG-RRU

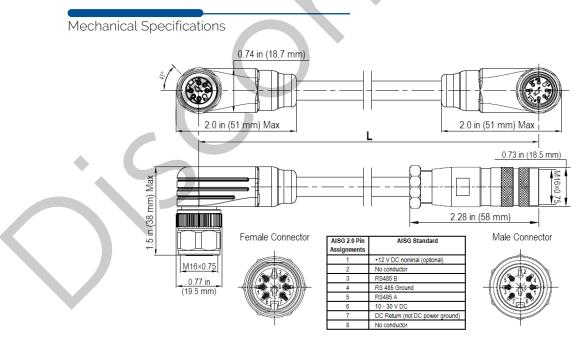


AISG Cable Kit

ACCESSORIES

Electrical/Mechanical/Environmental Specifications

	RET to RET Cables	RRU to Antenna Cables		
Individual Cable Part Number	AISGC-MRA-FRA-20	AISGC-M-FRA-10FT		
Cable style	UL2464			
Protocol	AISG 1.1 ar	d AISG 2.0		
Maximum voltage	30	0 V		
Rated current	5 A at 104	5 A at 104° F (40° C)		
Temperature Range	-40° to	-40° to 80° C		
Flammability	UL 158	UL 1581 VW-1		
Ingress Protection	IEC 60529	2001, IP67		
Tightening torque	Hand tighten only ≈ 1.84 ft-lbs (2.5 N·m)			
Construction	Shielded (Tinned Copper Braid)			
Braid coverage	85%			
Jacket Material	Matte Polyurethane (Black)			
Conductors	1 twisted pa 3 conducto AWM sty			
Cable Diameter	0.307 in	(7.8 mm)		
Minimum bend radius	3.9 in (1	00 mm)		
Connectors	2 x 8 pin IEC 60130-9 Right angle male/right angle female	2 x 8 pin IEC 60130-9 Straight male/right angle female		
Length	20 in (508 mm)	120 in (3048 mm)		
Weight	0.23 lbs (0.10 kg)	0.77 lbs (0.35 kg)		
Cables per kit	2	2		



Right Angle to Right Angle and Right Angle to Straight Jumper Cable

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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

