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SPECIFICATIONS

Electrical

2PA65R-K8A

	Ports		2 × Low Band Ports	for 698-960 MHz	
Fr	requency Range	698-806 MHz	790-862 MHz	824-896 MHz	880-960 MHz
	Gain	15.9 dBi	16.4 dBi	16.6 dBi	16.5 dBi
Azimuth Be	amwidth (-3dB)	70°	75°	74°	69°
Elevation Be	amwidth (-3dB)	9.2°	8.2°	7.9°	7.3°
Ele	ectrical Downtilt	0° to 10°	0° to 10°	0° to 10°	0° to 10°
Elevation Sidel	obes (1st Upper)	<-20 dB	<-20 dB	<-19 dB	<-18 dB
Front-to-Ba	ack Ratio @180°	> 28 dB	> 30 dB	> 30 dB	> 30 dB
Cross-Polar Discrin	nination at Peak	> 24 dB	> 24 dB	> 22 dB	> 22 dB
Cross-Polar Port-t	o-Port Isolation	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Voltage Standing Wa	ve Ratio (VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermode	ulation (2×20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continu	ious Wave (CW)	500 watts	500 watts	500 watts	500 watts
	Polarization	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°
Ir	nput Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Light	ning Protection	DC Ground	DC Ground	DC Ground	DC Ground

Frequency Range 694-806 MHz 790-862 MHz 824-896 MHz Gain over all Tilts (dBi) 15.6 15.8 16.1	880-960 MHz 16.2
Gain over all Tilts (dBi) 15.6 15.8 16.1	16.2
Gain over all Tilts Tolerance (dB)0.40.30.4	0.3
Gain at Low-Tilt (dBi) 15.7 15.8 16.1	16.2
Gain at Mid-Tilt (dBi) 15.7 15.9 16.2	16.3
Gain at High-Tilt (dBi) 15.4 15.8 15.9	16.1
Azimuth Beamwidth Tolerance (°)3.52.34.1	3.2
Elevation Beamwidth Tolerance (°)0.90.50.5	0.6
Electrical Downtilt Deviation (°)0.50.40.4	0.5
First Upper Sidelobe Suppression (dB)14.715.214.9	15.1
Upper Sidelobe Suppression Peak to 20° (dB)15.615.214.9	15.2
Front-to-Back Ratio over ±20° (dB) 24.7 27.7 27.8	28.4
Cross-polar Discrimination at ±60° (dB) 9.3 9.1 9.1	9.3

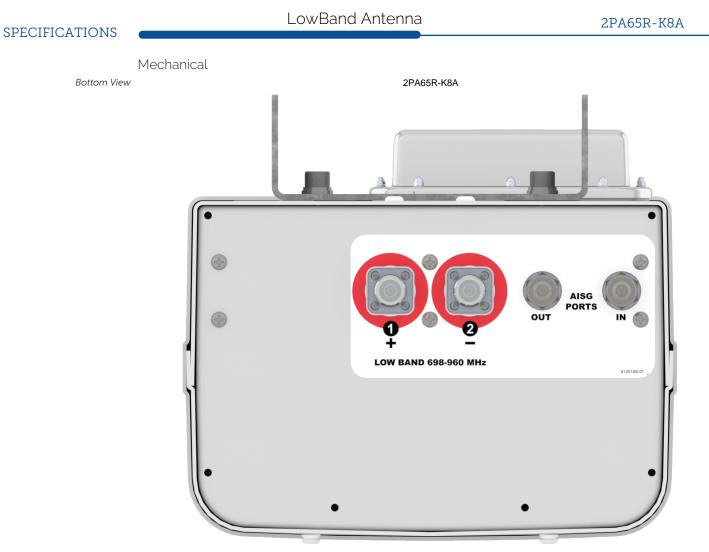
* Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V11.1. All specifications are subject to change without notice.

Dimensions (L×W×D)	96.0×11.7×8.3 in (2439×297×211 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load ¹	175 lbf @ 100 mph 780 N @ 161 kph
Side Wind Load ¹	139 lbf @ 100 mph 617 N @ 161 kph
Effective Projective Area (EPA), Front ¹	7.0 ft ² (0.6 m ²)
Weight *	49.8 lbs (22.6 kg)
RF Connector	2 × 4.3-10 female
Mounting Pole	2 to 5 in (5 to 12 cm)

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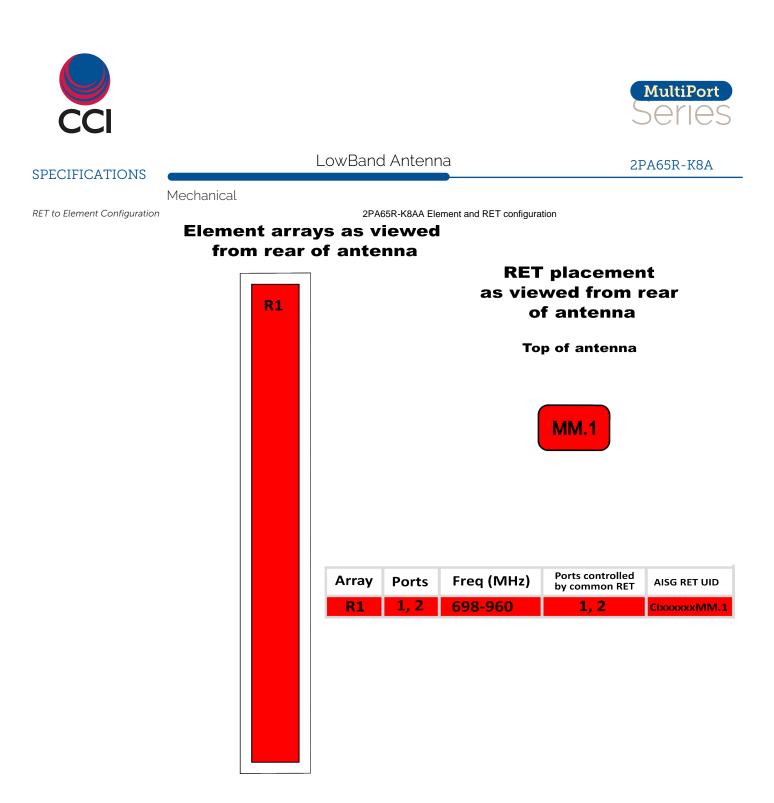


2PA65R-K8A

Connection Spacing Diagram

SPECIFICATIONS

Mechanical 2PA65R-K8A 1.81in [46.00mm] 1.97in [50.00mm] 1.97in [50.00mm] ନ \odot أ⊗ أ ۲ $\langle \! \diamond \! \rangle$ \odot أ 0 0



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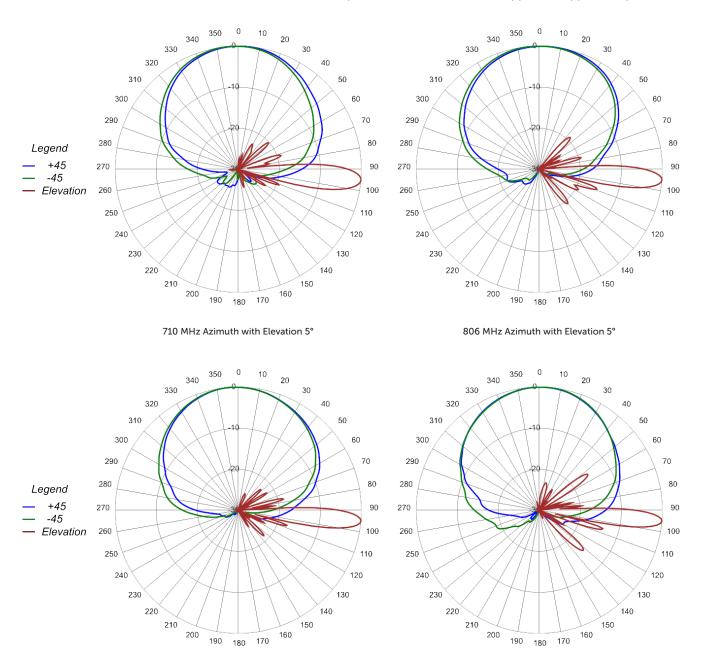


2PA65R-K8A

SPECIFICATIONS

Typical Antenna Patterns

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



945 MHz Azimuth with Elevation 5°

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880 MHz Azimuth with Elevation 5°



ORDERING



LowBand Antenna

2PA65R-K8A

Eight foot (2.4 m) LowBand antenna with 65° azimuth beamwidth, 4.3-10 female connectors, 1 factory installed BSA-RET400 RET actuators and MBK-01 mounting bracket
MBK-01 Mounting Kit with 0° - 10° mechanical tilt
MBK-16 Mounting Kit with fixed 0° mechanical tilt
Type 17 Internal remote electrical tilt actuator
10 Ft (3 m) Male/Female RRU to Antenna AISG cable

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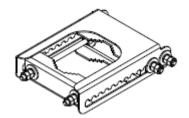
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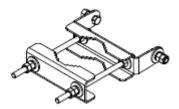
Mounting Bracket Kit

MBK-01

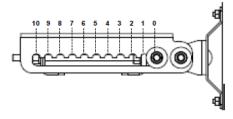
Weight	12.6 lbs (5.7 kg)
Hinge Pitch	47.25 in (1200 mm)
Mounting Pole Dimension	2 to 5 in (5 to 12 cm)
Fastener Size	M12
Installation Torque	40 ft·lb (54 N·m)
Mechanical Tilt Adjustment	0° - 10°



MBK-01 Top Adjustable Bracket



MBK-01 Bottom Fixed Bracket



MBK-01 Top Adjustable Bracket Side View

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Mounting Bracket Kit

MBK-16

ACCESSORIES	* (ounting blacket Kit
ACCESSORIES	Mechanical	
	Weight	9.9 lbs (4.5 kg)
		47.25 in (1200 mm)
	Mounting Pole Dimension	2 to 5 in (5 to 12 cm)
	Fastener Size	
	Installation Torque	
	Mechanical Tilt	0°

MBK-16 Top and Bottom Bracket



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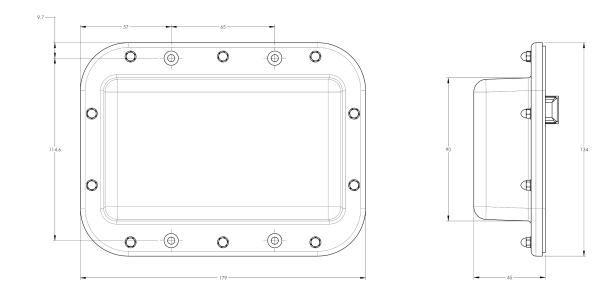
BSA-RET400

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ieneral Specifications	
Part Number	BSA-RET400
Protocols	AISG 2.0
RET Type	Туре 17
Adjustment Cycles	>10,000 cycles
Tilt Accuracy	±0.1°
Temperature Range	-40° C to 70° C
lectrical	
Data Interface Signal	DC
Input Voltage	10-30 Vdc
Current Consumption Tilt	100 mA at V _{in} =24 (500 mA MAX)
	10 mA at Vin=24
Current Consumption Idle	

Mechanical		
Dimensions (L×W×D)	7.0×5.3×1.8 in. (179×134×45 mm)	
	ASA/ABS/Aluminum	
	1.3 lbs (0.6 kg)	

ASA= Acrylic Styrene Acrylonitrile

ABS=Acrylanitrile Butadiene Styrene







AISG Cable

ACCESSORIES

AISGC-M-F-xFT

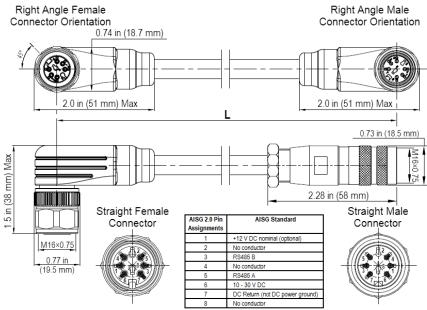
Electrical S	Specifications
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Individual Cable Part Number	AISGC-M-F-x(FT)
Cable style	UL2464
Protocol	AISG 1.1 and AISG 2.0
Maximum voltage	300 V
Rated current	5 A at 104° F (40° C)

Mechanical Specifications

Individual Cable Part Number	AISGC-M-F-x(FT)
Cables per kit	1
Connectors	2 x 8 pin IEC 60130-9 Straight male/straight female
Tightening torque	Hand tighten only \approx 1.84 ft-lbs (2.5 Nm)
Construction	Shielded (Tinned Copper Braid)
Braid coverage	85%
Jacket Material	Matte Polyurethane (Black)
Conductors	1 twisted pair - 24 AWG 3 conductors - 19 AWG AWM style 2464
Cable Diameter	0.307 in (7.8 mm)
Length	See order details
Minimum bend radius	3.15 in (80 mm)

Right Angle Female Connector Orientation



AISG-Male to AISG-Female Jumper Cable

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AISG Cable

AISGC-M-F-xFT

Environmental Specifications	
Individual Cable Part Number	AISGC-M-F-xFT
Temperature Range	-40° to 80° C
Flammability	UL 1581 VW-1
Ingress Protection	IEC 60529:2001, IP67





STANDARDS & CERTIFICATIONS

2PA65R-K8A

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



