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## **SPECIFICATIONS**

Electrical

## 2PA65R-K5A

Ports		2 × Low Band Ports	s for 698-960 MHz	
Frequency Range	698-806 MHz	791-832 MHz	832-862 MHz	862-960 MHz
Gain	14.8 dBi	14.7 dBi	14.9 dBi	15.1 dBi
Azimuth Beamwidth (-3dB)	64°	68°	68°	59°
Elevation Beamwidth (-3dB)	14.3°	13.5°	12.8°	12.2°
Electrical Downtilt	0° to 12°	0° to 12°	0° to 12°	0° to 12°
Elevation Sidelobes (1st Upper)	<-17 dB	<-19 dB	<-18 dB	<-19 dB
Front-to-Back Ratio @180°	> 30 dB	> 35 dB	> 35 dB	> 35 dB
Cross-Polar Discrimination at Peak	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Cross-Polar Port-to-Port Isolation	> 27 dB	> 27 dB	> 27 dB	> 27 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 (CW)	500 watts	500 watts	500 watts	500 watts
Polarization	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground

BASTA Electrical Specifications*				
Frequency Range	698-806 MHz	791-832 MHz	832-862 MHz	862-960 MHz
Gain over all Tilts (dBi)	14.4	14.5	14.6	14.9
Gain over all Tilts Tolerance (dB)	0.4	0.2	0.3	0.2
Gain at Low-Tilt (dBi)	14.5	14.6	14.8	15.0
Gain at Mid-Tilt (dBi)	14.3	14.4	14.5	14.8
Gain at High-Tilt (dBi)	14.5	14.5	14.6	15.0
Azimuth Beamwidth Tolerance (°)	2.5	2.4	2.2	4.1
Elevation Beamwidth Tolerance (°)	0.8	0.6	0.5	0.6
Electrical Downtilt Deviation (°)	1.0	1.1	0.9	1.0
First Upper Sidelobe Suppression (dB)	15.1	17.5	16.3	16.2
Upper Sidelobe Suppression Peak to 20° (dB)	16.9	17.7	16.3	16.3
Front-to-Back Ratio over <u>+</u> 20° (dB)	20.7	24.3	26.3	24.6
Cross-polar Discrimination at $\pm 60^{\circ}$ (dB)	8.0	7.5	8.4	7.9

\* 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)	59.0×12.1×7.7 in (1500×307×196 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load <sup>1</sup>	89 lbf @ 100 mph 395 N @ 161 kph
Side Wind Load <sup>1</sup>	66 lbf @ 100 mph 292 N @ 161 kph
Effective Projective Area (EPA), Front <sup>1</sup>	5.1 ft <sup>2</sup> (0.5 m <sup>2</sup> )
Weight*	28.4 lbs (12.9 kg)
RF Connector	2 × 4.3-10 female
Mounting Pole	3 to 6 in (76 to 152 mm)

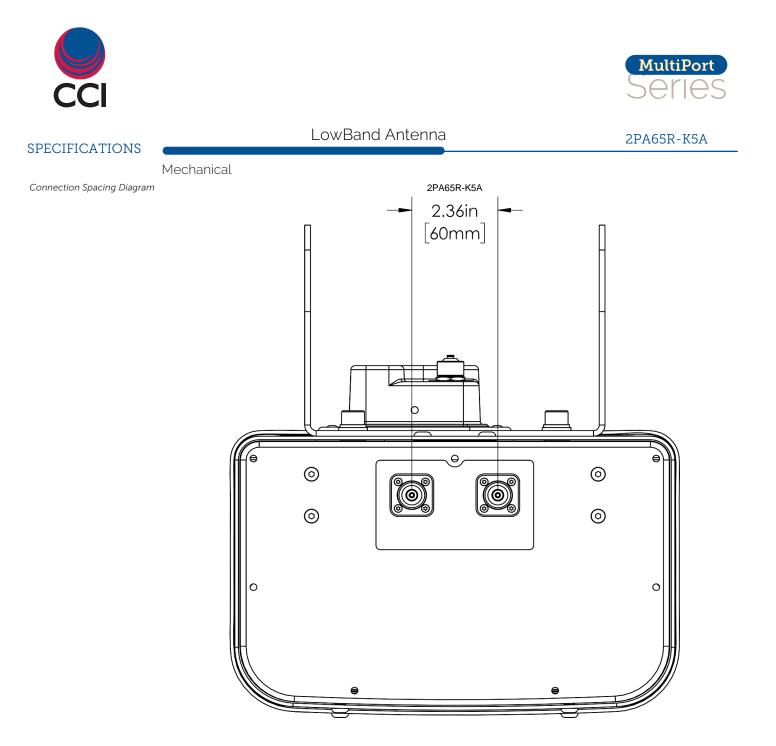
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SPECIFICATIONS	LowBand Antenna	2PA65R-K5A
Bottom View	Mechanical 2PA65R-K5A	
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SPECIFICATIONS

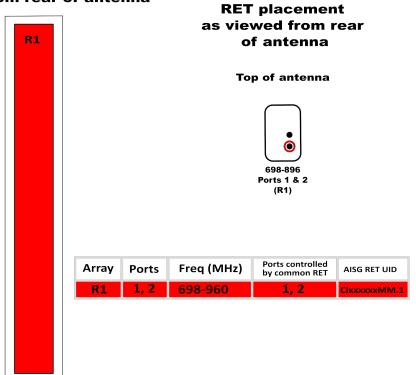
RET to Element Configuration

2PA65R-K5A

Mechanical

2PA65R-K5AA Element and RET configuration

#### Element arrays as viewed from rear of antenna



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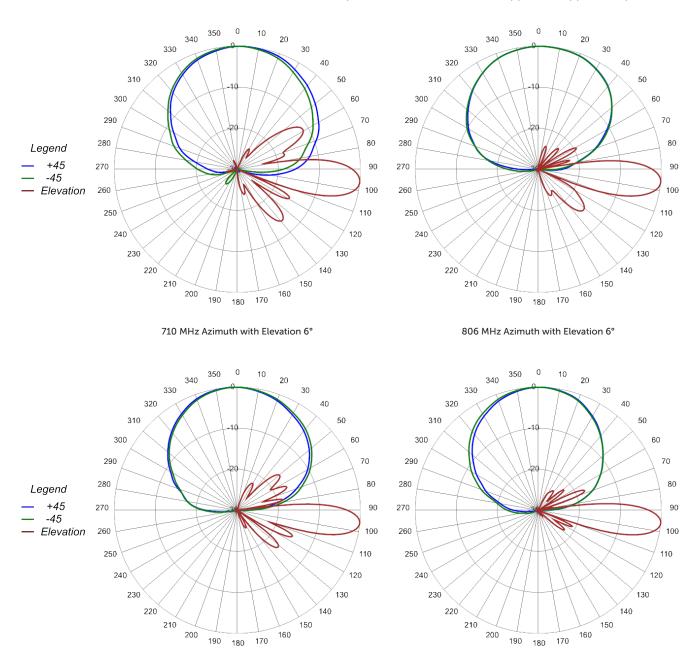


#### 2PA65R-K5A

#### **SPECIFICATIONS**

#### Typical Antenna Patterns

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



945 MHz Azimuth with Elevation 6°

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880 MHz Azimuth with Elevation 6°



ORDERING



# LowBand Antenna

# 2PA65R-K5A

Pá	arts & Accessories	
	2PA65R-K5AA-K	Five foot (1.5 m) two port LowBand antenna with 65° azimuth beamwidth, 4.3-10 female connectors, 1 factory installed BSA-RET200 RET actuators and MBK-32 mounting bracket
MBK-32	Mounting Kit with either 0 or 5 degrees of mechanical tilt	
	BSA-RET200	Type 1 External remote electrical tilt actuator

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# Mounting Bracket Kit

# MBK-32 ACCESSORIES Mechanical Weight 6.0 kg (13.2 lbs) Hinge Pitch 1200 mm (37.25 in) Mounting Pole Dimension 76 to 152 mm (3 to 6 in) (OD by measurement) Fastener Size M12 Installation Torque 54 N·m (40 ft·lbs) Mechanical Tilt 0°, 5° Ø MBK-32 Tilt Bracket

MBK-32 Fixed Bracket

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BSA-RET200

# ACCESSORIES

# Remote Electrical Tilt Actuator (RET)

General Specifications	
Part Number	BSA-RET200
Protocols	AISG 2.0
RET Type Adjustment Cycles Tilt Accuracy	Type 1
	>10,000 cycles
	<u>+</u> 0.1°
Temperature Range	-40° C to 70° C

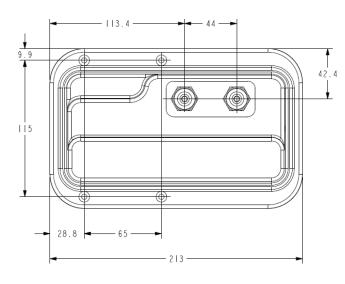
#### Electrical

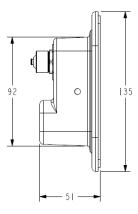
Data Interface Signal	DC
Input Voltage	10-30 Vdc
Current Consumption Tilt	120 mA at V <sub>in</sub> =24
Current Consumption Idle	55 mA at V <sub>in</sub> =24
Hardware Interface	AISG-RS 485 A/B
Input Connector	Male $1 \times 8$ pin Daisy Chain
Output Connector	Female 1 × 8 pin Daisy Chain

### Mechanical

Dimensions (L×W×D)8.0×5.0×2.0 in. (213×135×51 mm)HousingASA/ABS/AluminumWeight1.7 lbs (0.75 kg)

ASA= Acrylic Styrene Acrylonitrile ABS=Acrylonitrile Butadiene Styrene





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#### STANDARDS & CERTIFICATIONS

# 2PA65R-K5A

Standards & Compliance

Safety	EN 60950-1, UL 60950-1
Emission	EN 55032
Immunity	EN 55035
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 60068-2-27:2008, 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



