

8dBi Circular Polarization Antenna

SBA-U2508C

SBA-U2508C is an 8dBi UHF RFID antenna designed for circular-polarized performance across the 860–960 MHz band. With a compact gold-toned housing and 75° beamwidth on both axes, it ensures reliable tag capture in medium-range, directional applications. Built with reinforced structure and IPX4 moisture protection, it is suitable for standard indoor or sheltered outdoor deployments.

Features and Benefits:

- Frequency Range: 860–960 MHz (UHF)
- Gain: >8dBi for strong mid-range tag detection
- Circular Polarization for orientation-independent tag reading
- Beamwidth: 75° H / 75° V for focused coverage zones
- VSWR ≤ 1.3 for minimal signal loss
- Connector Type: SMA-5K
- Compact 190×190mm form, lightweight at 0.73 kg
- Material: Plastic + aluminum + FR4 composite body
- IPX4 rated for splash protection in semi-outdoor use
- Operating Temperature: -40°C to +85°C



Applications:

- Baggage tracking at airline or transit terminals
- Retail zone-based item monitoring
- RFID timing at sports event checkpoints
- Mid-range personnel access systems
- Shelf or crate tracking in small warehouses

SPECIFICATIONS

Physical Parameter

Dimensions	190mm X 190mm X 18.6mm
Colour	White/Gold
Weight	0.73 Kgs
Material	Plastic, Aluminium, FR4
Waterproof Rating	IPX4

UHF Technical Parameters

Operating Frequency	860-960 MHz
Gain	Up to 8 dBi
Beam Width	Horizontal: 75°, Vertical: 75°
VSWR	<=1.3
Polarization	Circular
Input Impedance	50 Ω
Maximum Input Power	100 W
Lightening Protection	DC Grounding
Connector Type	SMA-5K

Environmental Parameters

Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Working Humidity	5% to 95% RH No condensation

Soochak Bharat, with its technical expertise in RFID technology, focuses on designing, developing, innovating, and deploying RFID hardware solutions.

*Read range is dependent on tag size and design.

*Soochak Bharat reserves the right to make changes in the above specifications without notice.