

8 dBi Pure Antenna

SBA-U2508P

SBA-U2508P is a high-performance **8dBi UHF RFID antenna** designed for mid to long-range tag reading applications. With its **circular polarization**, strong **aluminum body**, and **weatherproof IP65 rating**, it provides stable and efficient RFID performance in both indoor and outdoor environments. Its directional beam, combined with durable construction and high wind resistance, makes it suitable for demanding setups such as vehicle tracking, logistics, and warehouse automation.

Features and Benefits:

- UHF frequency operation: 902–928 MHz
- 7dBi gain for balanced read range and accuracy
- Circular polarization for improved tag orientation flexibility
- Wide beam coverage: 80° horizontal, 70° vertical
- VSWR ≤ 1.4 for efficient signal performance
- Front-to-back ratio ≥ 20 reduces background interference
- Durable aluminium construction, white finish
- Compact dimensions: 165 × 165 × 20 mm
- SMA socket connector for easy cable connection
- IP65 waterproof rating – suitable for outdoor use
- Mounting bracket installation
- Works in temperatures from -20°C to +60°C



Applications:

- Access Control Systems (e.g., RFID-based gates and entries)
- Retail and Warehouse Inventory Management
- RFID-enabled Kiosks and Smart Cabinets
- Industrial Automation and Asset Tracking
- Indoor and Outdoor Mid-Range RFID Solutions

SPECIFICATIONS

Physical Parameter

Dimensions	165mm X 165mm X 20mm
Colour	White
Weight	0.4 Kgs
Packaging Dimensions	240mm X 240mm X 40mm
Installation	Mounting Bracket
Material	Aluminium
IP Rating	IP 65

UHF Technical Parameters

Operating Frequency	902-928 MHz
Gain	Up to 7 dBi
Beam Width	Horizontal: 80°, Vertical: 70°
VSWR	<=1.4
Front Back Ratio	>=20
Input Impedance	50 Ω
Maximum Input Power	100 W
Lightening Protection	DC Grounding
Connector Type	SMA Socket

Environmental Parameters

Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +80°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.