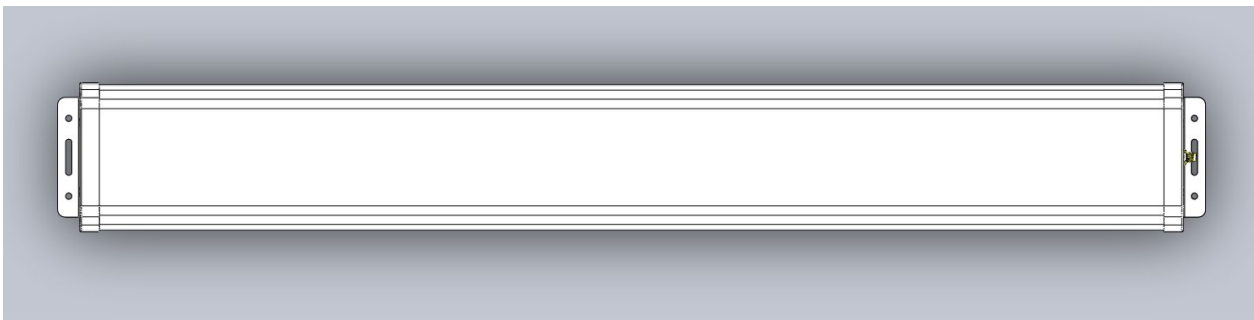


## 11 dBi Rectangular Antenna

### SBA-U2511R

**SBA-U2511R** is a high-performance **UHF RFID antenna** designed for passive tag identification systems operating in the **902–928 MHz** frequency band. With its **slim rectangular design**, **high gain**, and **circular polarization**, it offers reliable tag reading with minimal placement sensitivity. Ideal for use in access control, shelving systems, and smart storage solutions, the antenna ensures consistent performance across a wide range of indoor and outdoor environments.



#### Features and Benefits:

- Operates in the 902–928 MHz UHF RFID frequency band
- High gain of over 11 dBi for extended reading range
- Circular polarization for reliable tag detection at various orientations
- Wide horizontal coverage (120°) and narrow vertical beam (22°)
- Linear, compact design for easy mounting in tight spaces
- Durable build with PVC housing and copper radiating material
- Side-mounted SMA-K connector for streamlined installation
- Can be installed vertically or horizontally, with adjustable tilt
- Weather-resistant: Works in temperatures from -40°C to +80°C

#### Applications:

- Access control systems (e.g., vehicle gate entry)
- Smart cabinets and lockers
- RFID-enabled retail or warehouse shelving
- Asset tracking and inventory management
- Industrial automation setups requiring directional tag reading

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## SPECIFICATIONS

### Physical Parameter

Dimensions	770mm X 100mm X 30mm
Colour	White
Weight	0.9 Kgs (Excluding Bracket)
Material	PVC
Radiating Material	Copper

### UHF Technical Parameters

Operating Frequency	902-928 MHz
VSWR	$\leq 1.5$
Gain	Up to 11 dBi
H Plane HPBW	$120^\circ \pm 5^\circ$
E-Plane HPBW	$22^\circ \pm 3^\circ$
Polarization	Circular
Input Impedance	50 $\Omega$
Connector Type	SMA-K
Connector Position	Side-mounted, straight output

### Environmental Parameters

Operating Temperature	-40°C to +80°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.