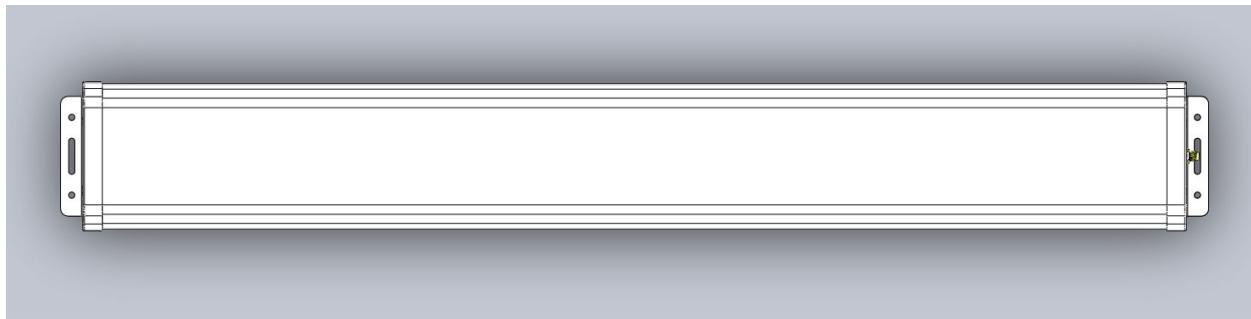


11 dBi Rectangular Antenna

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

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	<=1.5
Gain	Up to 11 dBi
H Plane HPBW	120° ± 5°
E-Plane HPBW	22° ± 3°
Polarization	Circular
Input Impedance	50 Ω
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.

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