

## 10dBi Flat Antenna

### SBA-U2510F

**SBA-U2510F** is a 10dBi flat UHF RFID antenna built for linear-polarized applications within the 902–928 MHz range. With a broad 150° horizontal beam and slim aluminum profile, it delivers effective mid-range performance for wall or ceiling-mounted use. Designed with ear-mount installation and IP54 protection, this antenna is ideal for semi-outdoor or clean indoor settings where compact, directional coverage is needed.

#### Features and Benefits:

- Frequency Range: 902–928 MHz (UHF)
- Gain: 10dBi for enhanced directional tag reads
- Linear Polarization for controlled tag reading zones
- Wide 150° horizontal / 20° vertical beam angle
- VSWR  $\leq 1.5$  for efficient signal transmission
- Connector Type: SMA socket
- Slim aluminum body, IP54 protection against dust and splashes
- Lightweight, ear-mount installation for easy deployment
- Operating Temperature: -20°C to +60°C
- DC grounded for lightning protection

#### Applications:

- RFID access control on gates and entry points
- Retail or office environments requiring discrete antenna placement
- Shelf-level or product line tracking setups
- Medium-range tag detection in logistics lanes
- Light-industrial indoor monitoring zones



<b>SPECIFICATIONS</b>	
<b>Physical Parameter</b>	
Dimensions	900mm X 100mm X 28mm
Colour	White
Weight	1.68 Kgs (Gross)
Packaging Dimensions	930mm X 110mm X 35mm
Material	Aluminium
Waterproof Rating	IP54
Installation Method	Ear-mount Installation
<b>UHF Technical Parameters</b>	
Operating Frequency	902-928 MHz
Gain	Up to 10 dBi
Beam Width	Horizontal: 150°, Vertical: 20°
VSWR	<=1.5
Polarization	Linear
Input Impedance	50 Ω
Maximum Input Power	100 W
Lightening Protection	DC Grounding
Connector Type	SMA Socket
<b>Environmental Parameters</b>	
Operating Temperature	-20°C to +60°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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