

10dBi Track Antenna

SBA-U2510T

SBA-U2510T is a 10dBi linear polarized UHF RFID track antenna, tailored for applications in the 902–928 MHz band. With a wide 100° horizontal beam and robust fiberglass housing, it is ideal for conveyor belt systems, smart shelving, and focused item tracking. The antenna offers reliable mid- to long-range performance, making it a versatile choice for industrial and commercial RFID setups.

Features and Benefits:

- Frequency Range: 902–928 MHz
- Gain: 10dBi for enhanced mid- to long-range tag reading
- Linear Polarization for stable, orientation-specific detection
- Beamwidth: 100° horizontal / 30° vertical
- VSWR ≤ 1.3 for high signal efficiency
- Front-to-Back Ratio ≥ 12 for basic rear-side signal rejection
- Connector Type: N-type socket
- Max Input Power: 100W
- Durable fiberglass housing with IP65 waterproof rating
- Operating Temperature: -20°C to +60°C
- Lightning protection via DC grounding



Applications:

- Conveyor belt and assembly line RFID tracking
- Smart shelf and retail item identification
- Industrial automation and access control
- Mid-range asset tracking zones
- RFID-enabled logistics pathways

SPECIFICATIONS

Physical Parameter	
Dimensions	605mm X 155mm X 56mm
Colour	White/Black
Weight	2.72 Kgs (Gross)
Packaging Dimensions	630mm X 170mm X 100mm
Material	Fiberglass
Waterproof Rating	IP65
UHF Technical Parameters	
Operating Frequency	902-928 MHz
Gain	Up to 10 dBi
Beam Width	Horizontal: 100°, Vertical: 30°
VSWR	≤1.3
Front Back Ratio	≥20
Polarization	Linear
Input Impedance	50 Ω
Maximum Input Power	100 W
Lightening Protection	DC Grounding
Connector Type	N-Type Socket
Environmental Parameters	
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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