

## 15dBi Panel Antenna

### SBA-U2515PN

**SBA-U2515PN** is a high-gain 15dBi vertically polarized UHF panel antenna designed for wideband applications across the 806–960 MHz frequency range. Engineered for long-distance, high-precision coverage, it features a durable aluminum build, IP65-rated protection, and strong directional performance. Ideal for robust outdoor installations in wireless communication and RFID infrastructure.

#### Features and Benefits:

- Frequency Range: 806–960 MHz
- Gain: 15dBi for long-range and high-strength signal transmission
- Vertical Polarization for consistent signal alignment
- Beamwidth: 70° horizontal / 30° vertical for directional coverage
- VSWR  $\leq 1.5$  for optimal signal efficiency
- Front-to-Back Ratio  $\geq 20$  to minimize backward interference
- Connector Type: N-type socket
- Max Input Power: 100W
- Rugged aluminum housing with IP65 waterproof rating
- Operating Temperature: -20°C to +60°C
- Lightning protection via built-in DC grounding
- Mounts on poles ( $\Phi 40\text{--}100\text{mm}$ ) and withstands winds up to 50m/s

#### Applications:

- Long-range RFID and wide-area wireless systems
- Industrial connectivity and IoT networks
- Smart city and infrastructure monitoring
- Vehicle tracking and access control
- Outdoor telemetry and broadband transmission



<b><u>SPECIFICATIONS</u></b>	
<b>Physical Parameter</b>	
Dimensions	1200mm X 280mm X 80mm
Colour	White/Black/Grey
Weight	7.5 Kgs (Gross)
Packaging Dimensions	1250mm X 345mm X 220mm
Material	Aluminium
Pole Diameter	φ40-100mm
Waterproof Rating	IP65
Maximum Wind Resistance	50 m/s
<b>UHF Technical Parameters</b>	
Operating Frequency	806-960 MHz
Gain	Up to 15 dBi
Beam Width	Horizontal: 70°, Vertical: 30°
VSWR	<=1.5
Front Back Ratio	>=20
Polarization	Vertical
Input Impedance	50 Ω
Maximum Input Power	100 W
Lightening Protection	DC Grounding
Connector Type	N-Type 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.

#### **SOOCHAK BHARAT TECHNOLOGIES PRIVATE LIMITED**