

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 ≤ 1.5 for optimal signal efficiency
- Front-to-Back Ratio ≥ 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 ($\Phi 40$ –100mm) 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



SPECIFICATIONS

Physical Parameter

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

UHF Technical Parameters

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

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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