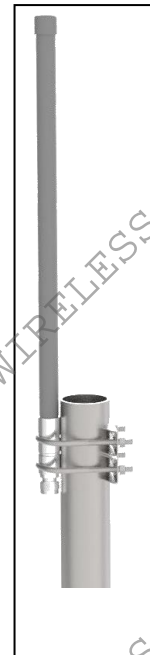


Product features


- Frequency: 860-930MHz
- Suits both 868MHz and 915 MHz bands
- Vertically polarized
- Max Gain: 6.5 dBi
- Omnidirectional
- High efficiency



Specifications


| Electrical Specifications | |
|---------------------------------|--------------------------------|
| Frequency Range (MHz) | 860-930 |
| Tape width (MHz) | 70 |
| Input Impedence (Ω) | 50 |
| V.S.W.R | ≤ 1.5 |
| Gain (dBi) | 6.5 ± 0.3 |
| Polarization Type | Vertical polarization |
| Radiation Direction | Omni |
| Half power corner($^{\circ}$) | H 360° /E 8° |
| Max Input Power (w) | 100 |

| Mechanical Specifications | |
|---------------------------|--|
| Antenna size (mm) | $\Phi 20 \times 800$ |
| Antenna cover material | Fiber glass |
| Connect Type | N-J |
| Operating Temperature | $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$ |
| Storing Temperature | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ |
| Mounting | U bracket installation |
| Lightning protection | DC grounding |
| Wind resistance | 60m/s |
| Pole | $\phi 25 \sim \phi 50$ mm |
| Weight (g) | 420 |

| | | |
|--|---|--------------|
|  SEKOSD Wireless LoRa® Wireless Technology | Note: | |
| | Article No: 95932 | Version: 3.0 |
| | Author: Samuel & Adam © 2022 All right reserved for SEKOSD Wireless | |

Efficiency vs gain

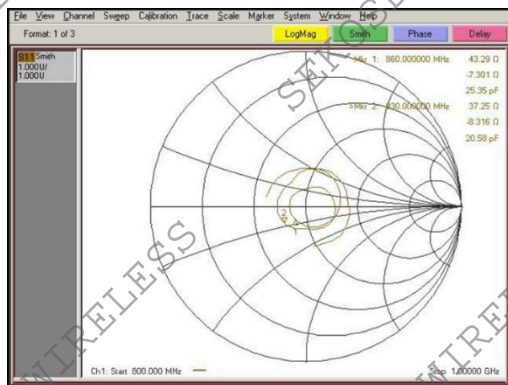
| Frequency (MHz) | Efficiency (%) |
|-----------------|----------------|
| 860.0 | 81.48 |
| 865.0 | 82.28 |
| 870.0 | 83.79 |
| 875.0 | 84.41 |
| 880.0 | 83.73 |
| 885.0 | 79.91 |
| 890.0 | 80.18 |
| 895.0 | 80.77 |
| 900.0 | 76.14 |
| 905.0 | 76.94 |
| 910.0 | 77.94 |
| 915.0 | 77.34 |
| 920.0 | 78.99 |
| 925.0 | 78.56 |
| 930.0 | 76.38 |

| | | |
|--|---|--------------|
|  SEKOSD Wireless LoRa® Wireless Technology | Note: | |
| | Article No: 95932 | Version: 3.0 |
| | Author: Samuel & Adam © 2022 All right reserved for SEKOSD Wireless | |

Return Loss




Smith Chart:



VSWR

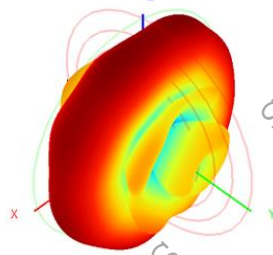


| | | |
|--|---|--------------|
|  SEKOSD Wireless LoRa® Wireless Technology | Note: | |
| | Article No: 95932 | Version: 3.0 |
| | Author: Samuel & Adam © 2022 All right reserved for SEKOSD Wireless | |

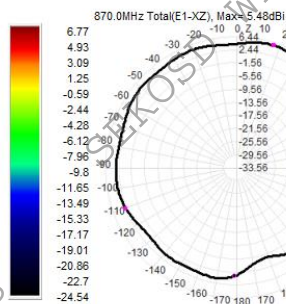
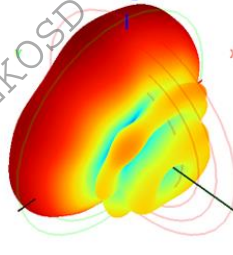
Antenna pattern

870 MHz

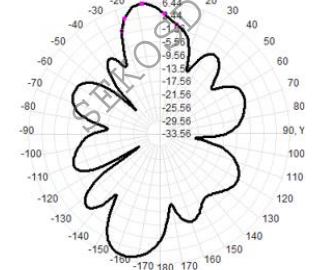
870.0MHz H+V, Eff: 83.8%



Back View

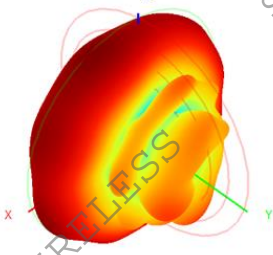


870.0MHz Total (E2-YZ), Max=6.44dBi

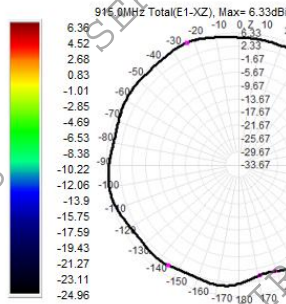
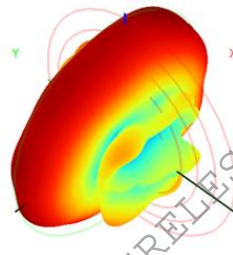


915 MHz

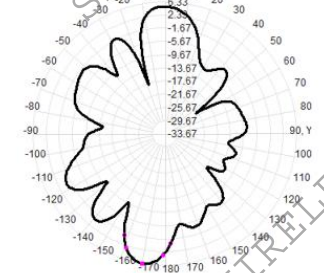
915.0MHz H+V, Eff: 77.3%




Back View



915.0MHz Total (E2-YZ), Max=6.11dBi



| | | |
|--|---|--------------|
|  SEKOSD Wireless LoRa® Wireless Technology | Note: | |
| | Article No: 95932 | Version: 3.0 |
| | Author: Samuel & Adam © 2022 All right reserved for SEKOSD Wireless | |