



Coverage.
Performance.
Smart.

Antenna ET900SLGAEA

Airgain Outdoor Antenna Engineering Data Sheet

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Revision History (Required)

Revision	Date	Note
2862C-02-00-001-1 Rev. 1.0	March 9, 2020	Preliminary Datasheet 1.0
2862C-02-00-001-1 Rev. 1.1	May 25, 2020	Update antenna tolerances

Disclaimers

The information in this document is provided in connection with Airgain Antenna products and is proprietary and confidential. Airgain may make changes at any time, without notice.

Please verify with Airgain before finalizing a product design.

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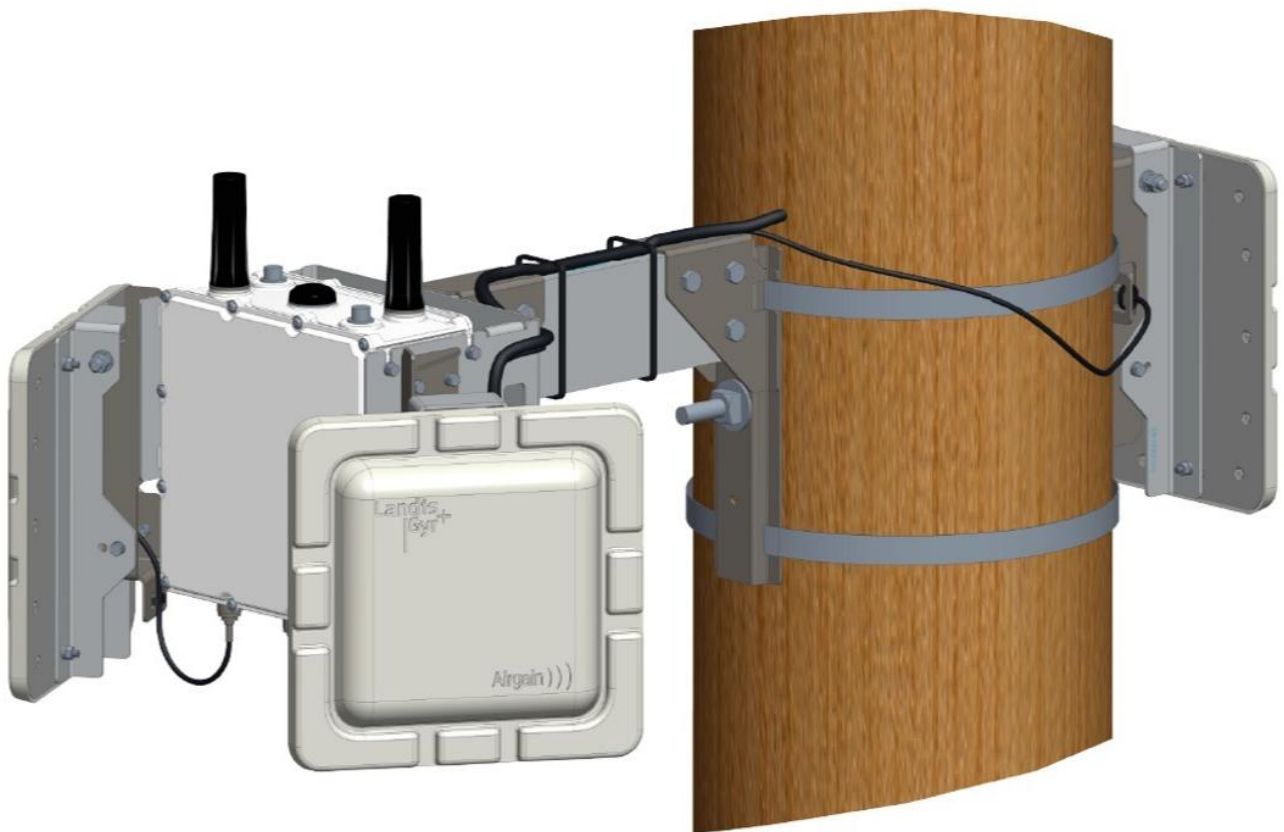
1. Airgain ET900SLGAEA Outdoor Antenna

The Model ET900SLGAEA is a directional high performance antenna for the 900MHz LoRa band. This antenna is designed to accommodate outdoor communications including LoRa protocol for Internet of Things (IOT)

2. Features

The Model ET900SLGAEA base station antenna is defined by the following features:

- Directional PATCH antenna
- LoRa IOT Band Coverage (902-928MHz)
- High efficiency



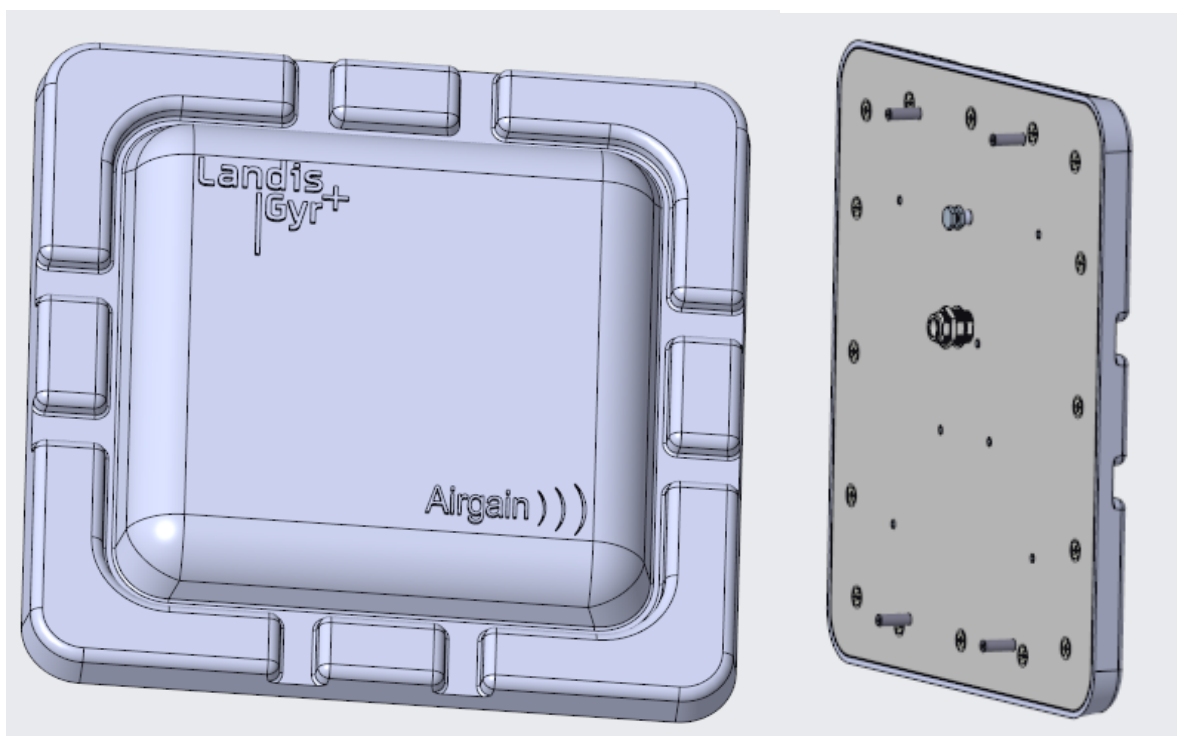
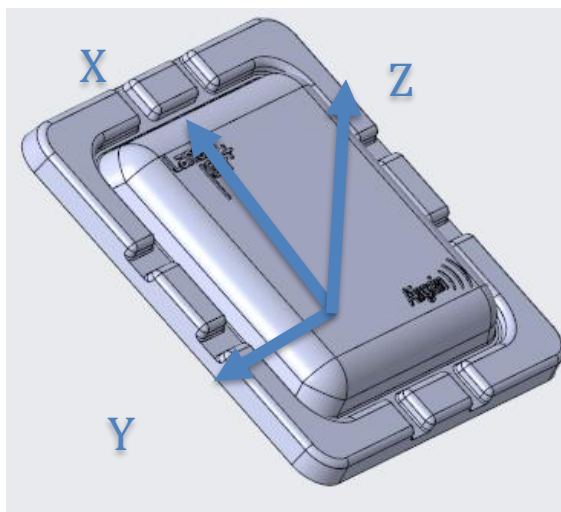


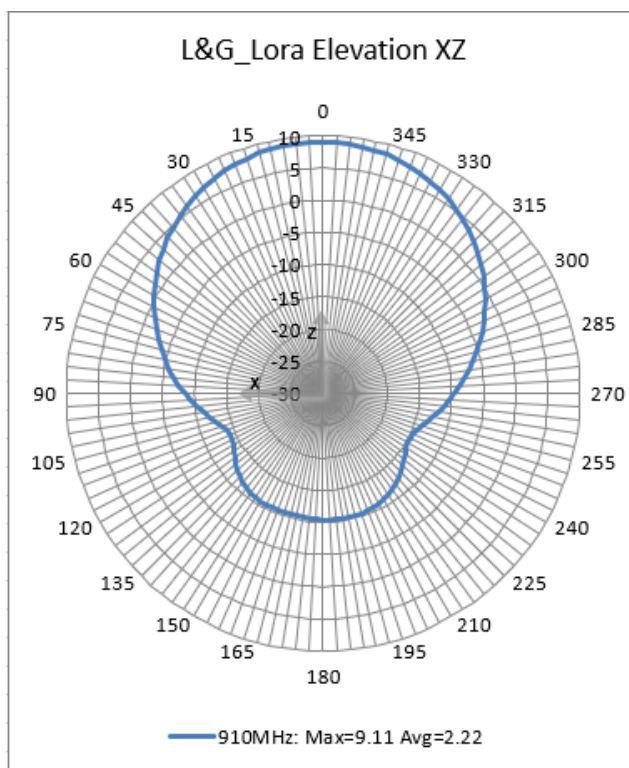
Figure 1: Model ET900SLGAEA Outdoor Antenna

3. Specifications and Interface

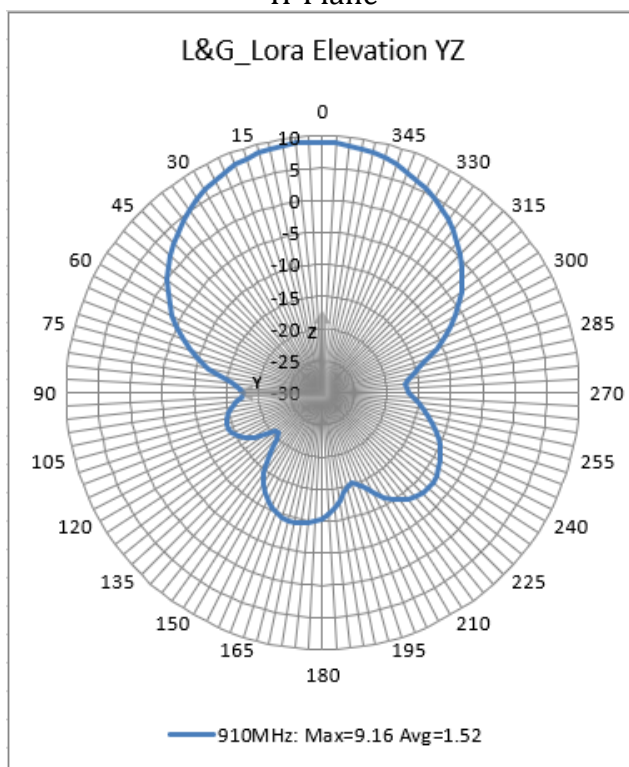
Frequency range	902-928 MHz	
Peak gain	9.0 dBi @910 MHz,	
Return Loss	< -10 dB@ Single antenna	< -10 dB@ 3-sector antenna
Isolation	> 60dB@ pol to pol isolation	
3dB beam width(V)	65°	
3dB beam width(H)	65°	
Feed impedance	50 ohms	
Power handling	5 Watts	
Interface	50 ohms, N-Female	
Enclosure rating	Weather resistant UV stable	
Radome material	PC-EXL9330	
Antenna dimensions	307.5 ×307.5 x 36.2 mm	
Weight	1.5kg	
Temperature range	Operating -40°C to +85°C	
Environment	Outdoor Mounted	
waterproof grade	IP67	
RoHS	RoHS compliant	
Lightning protection	DC ground	

4. Radiation Patterns – Vertical Mounting





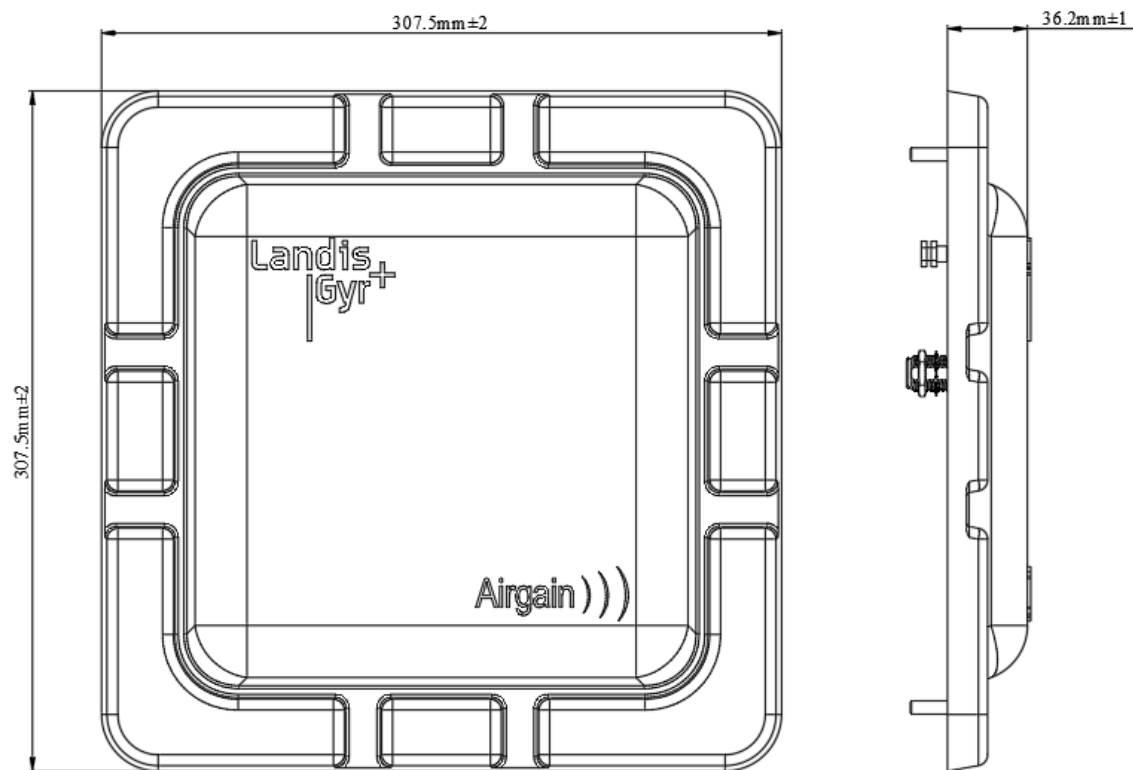
H-Plane



E-Plane

Figure 2: Model ET900SLGAEA Measured Radiation Patterns at 910MHz

5. Dimensions



Unless otherwise specified, tolerances are $\pm 0.5\text{mm}$

Figure 3: Model ET900SLGAEA Dimensions