



Coverage.
Performance.
Smart.

**OminiMax External
Dipole Series
ET960NPMR2**

**Airgain
Outdoor
Antenna
Engineering
Data Sheet**

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Revision History (Required)

Revision	Date	Note
2827-02-00-001-1 Rev. 1.0	March 30, 2020	Preliminary Datasheet 1.0
2827-02-00-001-1 Rev. 1.1	February 23,2021	Updated Temperature range

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 ET960NPMR2 Outdoor Antenna

The ET960NPMR2 is an omni-directional high performance antenna designed for full outdoor operation in the 900MHz (ISM band). This antenna was designed to accommodate outdoor gateway connectivity for Industrial Internet of Things applications, including LPWAN protocols LoRa and Sigfox.

2. Features

The Model ET960NPMR2 Dipole Antenna is defined by the following features:

- Omni-directional dipole antenna
- LoRa IOT Band Coverage (902-928MHz)
- 5.7 dBi @910MHz nominal peak gain
- High efficiency



Figure 1: Model ET960NPMR2 Outdoor Antenna

3. Specifications and Interface

Standard	U.S. LoRa, 900 MHz ISM Band
Frequency range	902-928 MHz
Noninal peak gain	5.7 dBi @910 MHz
Efficiency	79.3% @910 MHz
VSWR	< 2:1
Feed impedance	50 ohms
Interface	50 ohms, N-type (N PLUG)
Enclosure rating	Weather resistant UV stable
Antenna dimensions	Φ 22.4 mmx720 mm
Weight	TBD
Temperature range	Operating -40°C to +85°C
Humidity Range	5 to 95%
RoHS	RoHS compliant

4. Radiation Patterns – Vertical Mounting

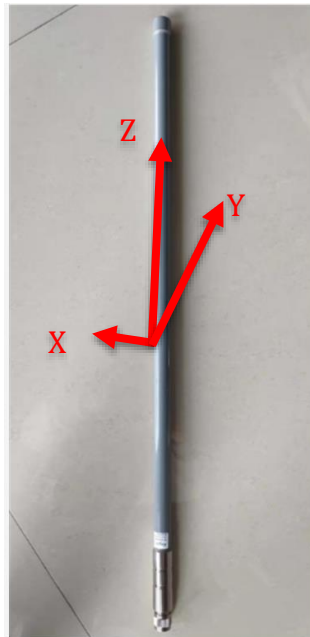


Figure 2: Model ET960NPMR2 Measurement axes

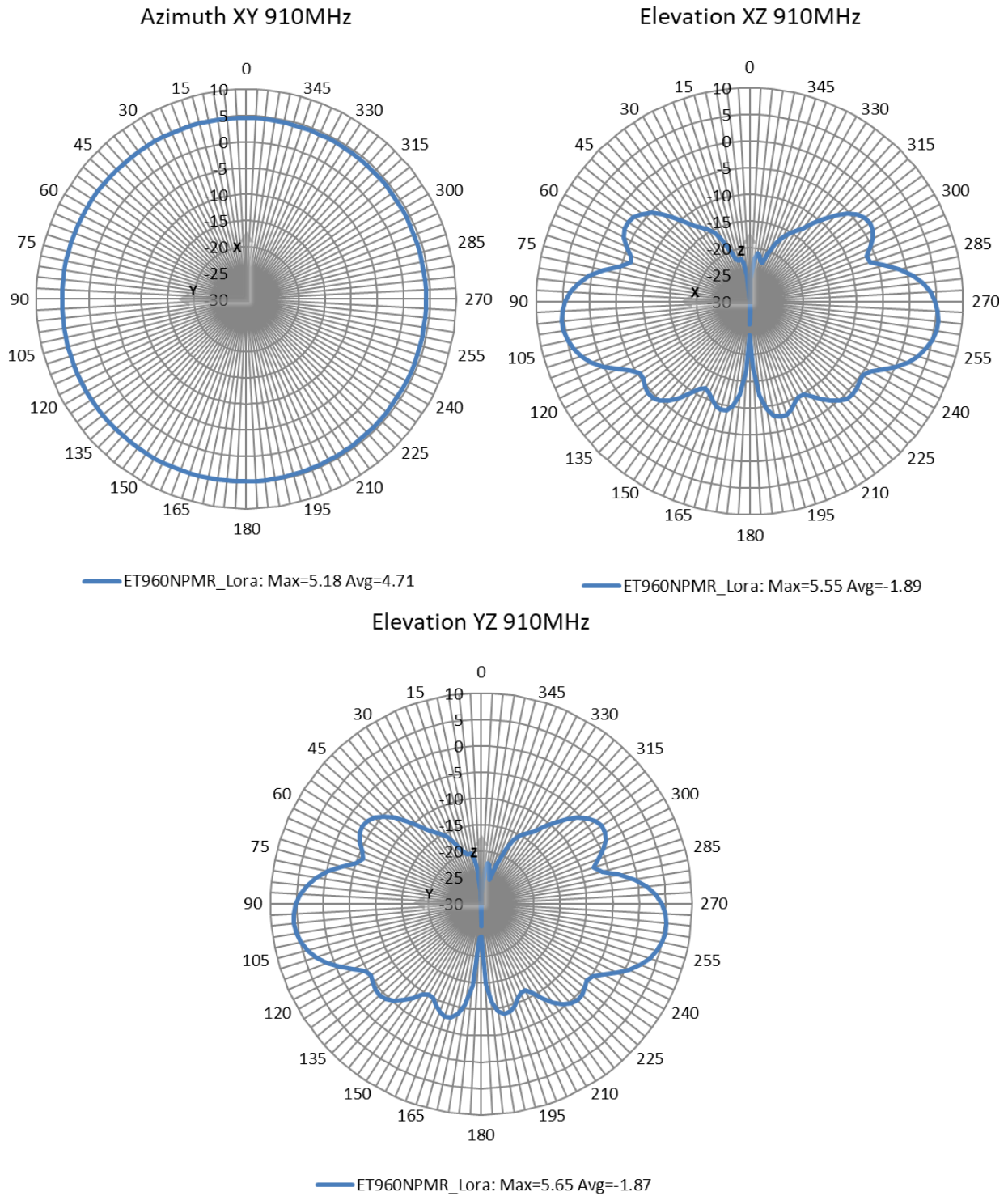


Figure 3: Model ET960NPMR2 Measured Radiation Patterns at 910MHz

5. Dimensions

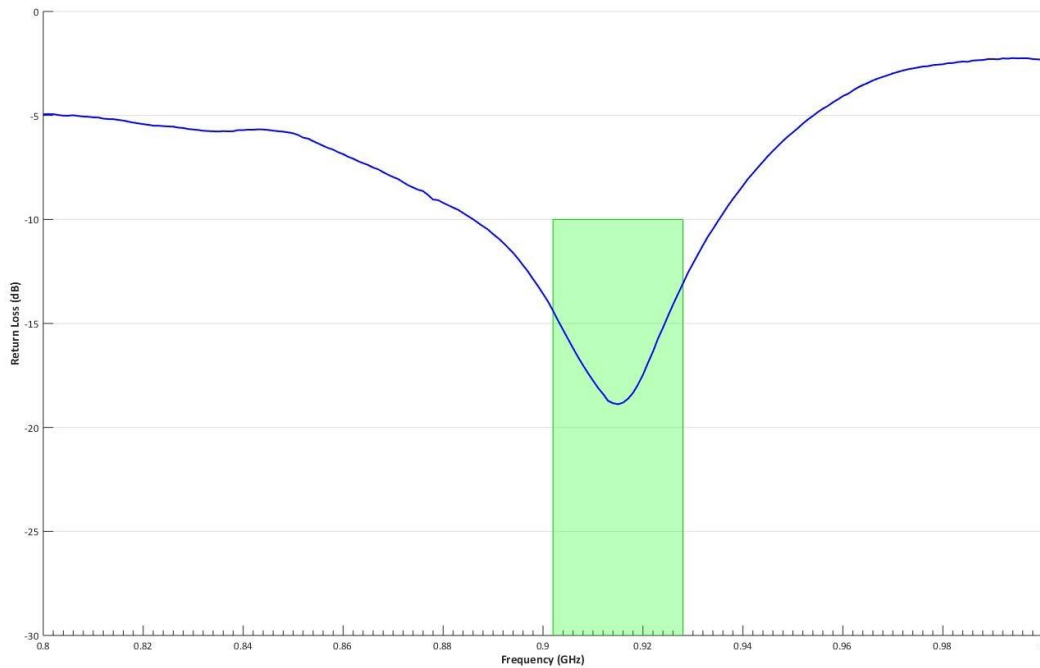
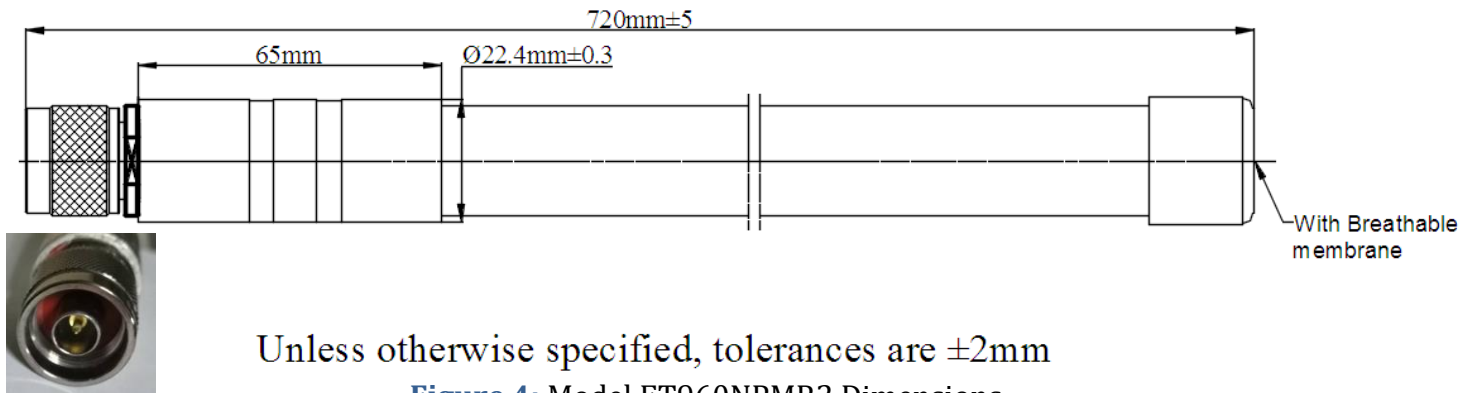


Figure 5: S11