



Coverage.
Performance.
Smart.

**OminiMax External
Dipole Series
ET8620NPMR2**

**Airgain
Outdoor
Antenna
Engineering
Data Sheet**

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Revision History (Required)

Revision	Date	Note
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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 ET8620NPMR2 Outdoor Antenna

The ET8620NPMR2 is an omni-directional high performance antenna designed for full outdoor operation in the 866MHz (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 ET8620NPMR2 Dipole Antenna is defined by the following features:

- Omni-directional dipole antenna
- LoRa IOT Band Coverage (863-870MHz)
- 2.0 dBi @866MHz nominal peak gain
- High efficiency



Figure 1: Model ET8620NPMR2 Outdoor Antenna

3. Specifications and Interface

Standard	India LoRa, 900 MHz ISM Band
Frequency range	863-870MHz
Noninal peak gain	2.0 dBi @866 MHz
VSWR	< 2:1
Feed impedance	50 ohms
Interface	50 ohms, N-type (M)
Antenna dimensions	Φ28 mmx230 mm
Weight	214.9g
Temperature range	Operating -40°C to +55°C
Humidity Range	5 to 95%
RoHS	RoHS compliant
Waterproofing grade	IP67
Salt spray test time	168h

4. Radiation Patterns – Vertical Mounting

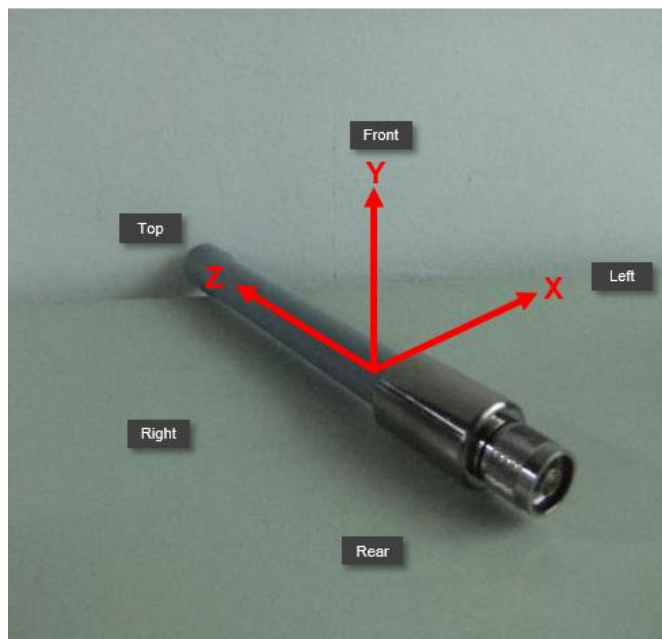


Figure 2: Model ET8620NPMR2 Measurement axes

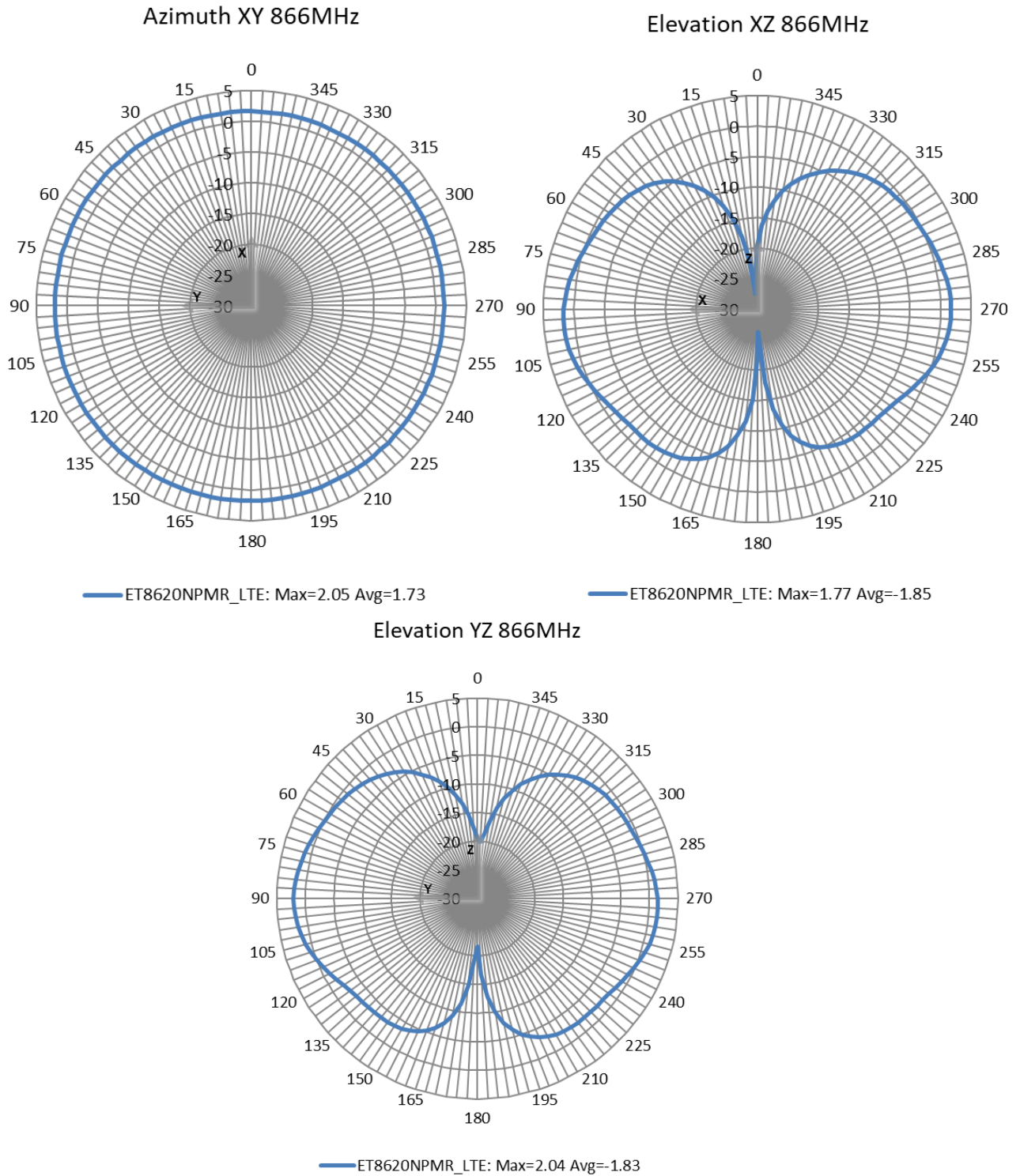
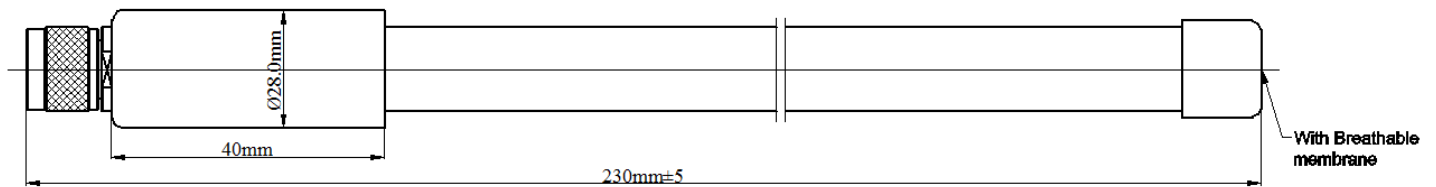


Figure 3: Model ET8620NPMR2 Measured Radiation Patterns at 866MHz

5. Dimensions



Unless otherwise specified, tolerances are $\pm 2\text{mm}$

Figure 4: Model ET8620NPMR2 Dimensions