

**RF
NEXUS**

Product Datasheet

NEX14-EXT-TR-001

Key Features

- 4G/5G
- NB-IoT/ Cat-M1
- 700/960 MHz
- 1415/1515 MHz
- 1700/2900 MHz
- 3400/3800 MHz
- Adhesive Mount
- Terminal Mount
- Ground Dependent
- Dimensions
Ø 15 × 195 mm



1- Introduction

The NEX14-EXT-TR-001 is a versatile terminal mount dipole antenna designed to operate on 4G/5G frequency bands. Standing at a compact 195mm in height with a slim 15mm diameter, its durable ABS (UV) casing allows for flexible mounting, either in a straight position or angled, thanks to its hinged RPSMA(M) connector.

This antenna is particularly suited for various wireless technologies including 5G, 4G, 3G and their IoT technologies such as NB-IoT/ Cat-M1. Engineered to deliver exceptional performance, the NEX14-EXT-TR-001 offers an omnidirectional radiation pattern, ensuring uniform signal distribution. It also boasts remarkably high efficiency and impressive gain across all 5G/4G frequency bands, making it a reliable choice for high-demand wireless applications.

2- Specifications

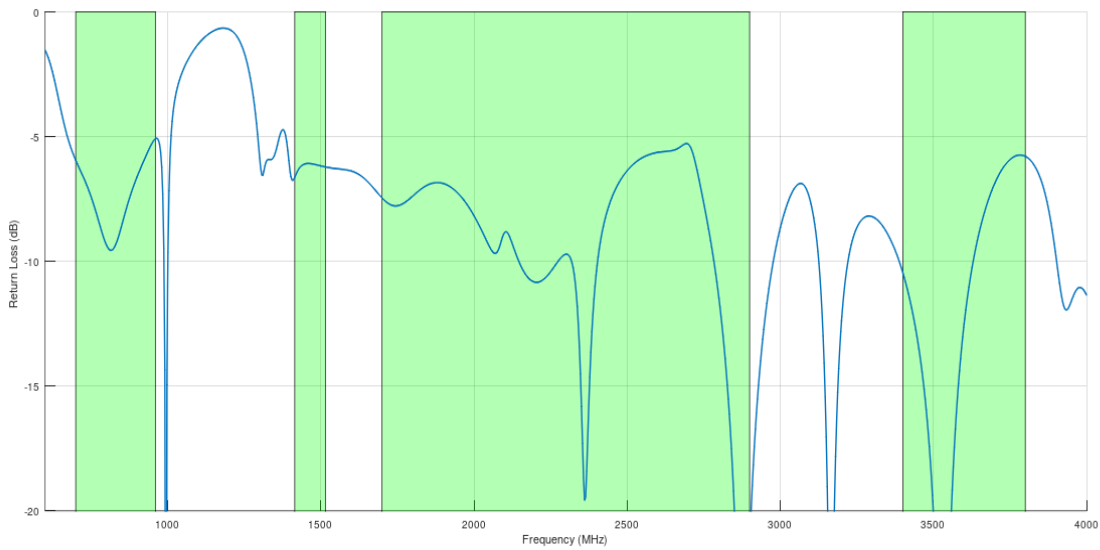
Mechanical	
Height	195mm
Diameter	Ø 15 mm
Connector	SMA(M)
Casing	ABS (UV)
Temperature Range	-40°C to 85°C

Electrical				
Frequency (MHz)	700/960	1415/1515	1700/2900	3400/3800
Return Loss (dB)	-6	-6	-6	-6
VSWR	3:1	3:1	3:1	3:1
Efficiency	50%	40%	50%	50%
Peak Gain (dBi)	0.5	1	1.5	3
Impedance	50Ω			
Polarization	Linear			
Pattern	Omnidirectional			

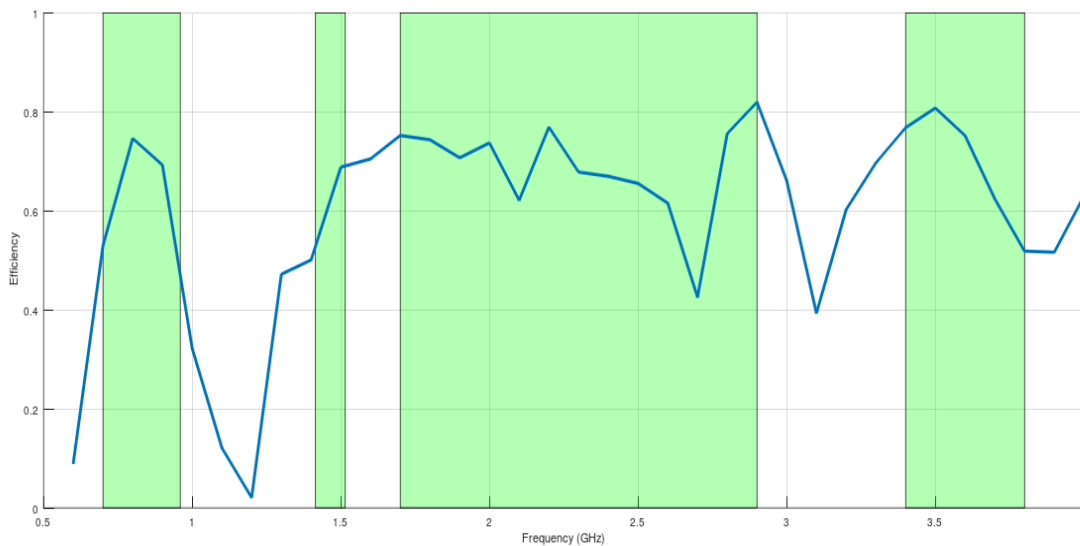
*Data are given for antenna on 120x120 mm metal ground plane.

3- Antenna Parameters

3.1- Return Loss



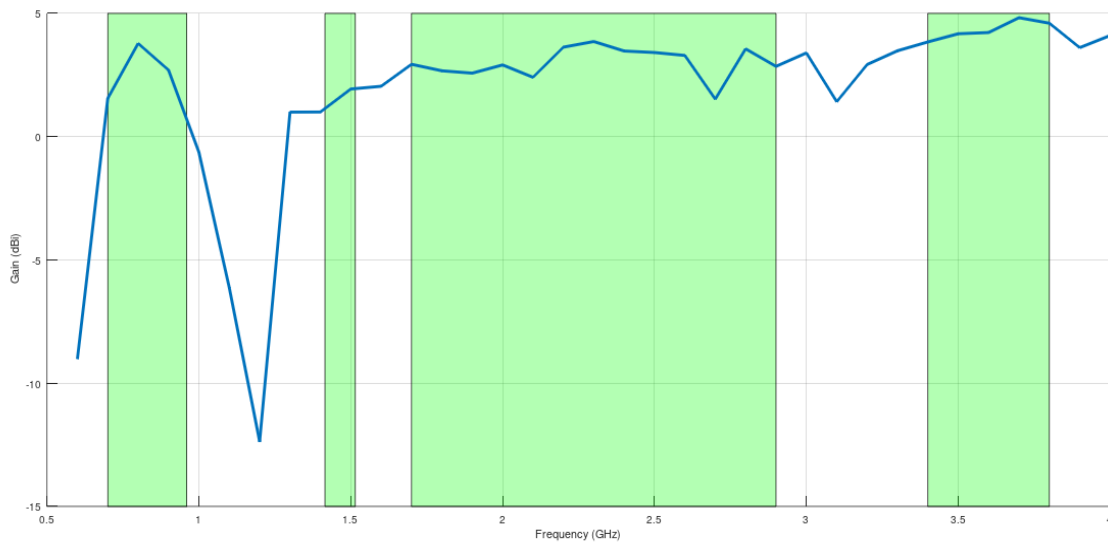
3.2- Efficiency



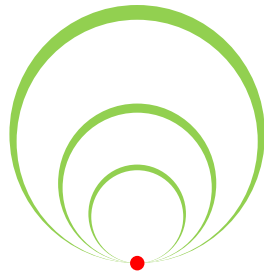
*Data are given for antenna on 120x120 mm metal ground plane.

4- Radiator Patterns

4.1- Peak Gain



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