

LNA-1000 Series

Industrial Cellular Low-noise Amplifiers



Features and Benefits

- Industrial-grade signal amplifier for 5G networks
- Compact size for easy installation
- Easy integration with Moxa 5G user equipment
- Stabilizes and improves low-power 5G signal performance
- -40 to 70°C wide-temperature design

Introduction

The LNA-1000 Series low-noise amplifier modules are designed to amplify the performance and sensitivity of weak signals while minimizing the introduction of additional noise. The LNA-1000 Series modules are suitable for a wide variety of communications and signal processing applications.

The LNA module employs advanced circuitry to achieve high gain and low noise. These modules operate in the radio frequency (RF) range and can amplify weak signals from antennas, or other sources with minimal distortion.

Specifications

Cellular Interface	
Cellular Antenna Connectors	2 x SMA(J) signal input (including one power input) 2 x SMA(J) signal output
Frequency Bands Supported	Cellular broadband LTE and NR frequencies
LED Indicators	
System	Power
Power Parameters	
Source of Input Power	Powered by 5G user equipment (UE) via RF cable
Physical Characteristics	
Dimensions	75.4 x 60.4 x 15.5 mm (2.97 x 2.38 x 0.61 in)
Housing	Metal
IP Rating	IP30
Weight	73 g (0.16 lb)
Installation	Wall mounting

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

MTBF

Time	14,090,649 hrs
Standards	Telcordia SR332

Warranty

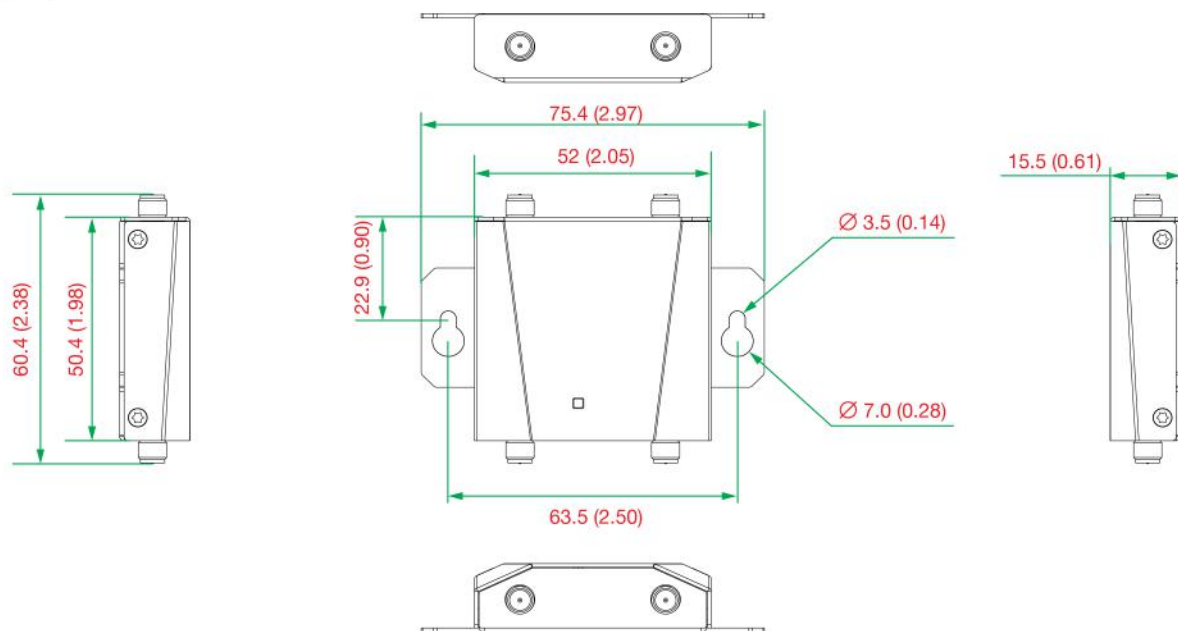
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x LNA-1000 Series low-noise amplifier
Documentation	1 x quick installation guide

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Supported Devices	Cellular Bands	Housing	Operating Temp.
LNA-1120-T	CCG-1500 Series	Cellular broadband LTE and NR frequencies	IP30	-40 to 70°C

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