

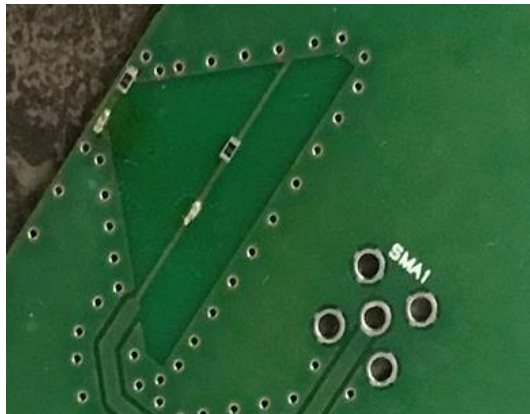


Niche NB-IoT antenna Datasheet

Rev 1.1
2019-06-26

General information

This Proant patented Niche antenna, is a miniature PCB integrated antenna covering the IoT bands 8 and 20 (791-960 MHz). The antenna technology is licensed from, and used by permission of, Proant AB.



Technical data

Frequency	791-960 MHz
Return loss	< -8,1 dB (on Proant evaluation board)
Total efficiency	> -1,1 dB (78%) (on Proant evaluation board)
Gain	Max 5,5 dBi (on Proant evaluation board)
Dimensions	25 x 16 mm
Mounting	Integrated in PCB

Application examples

Mobile accessories

Wearable devices

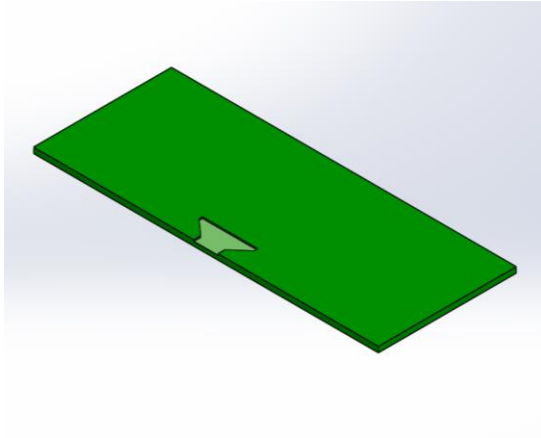
IoT devices

Alarms

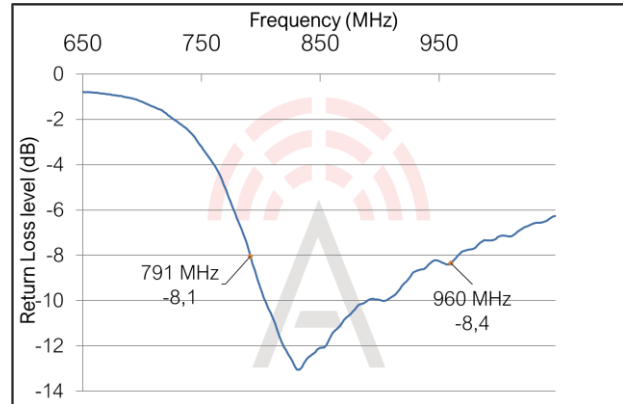
AMR

Electrical performance

Measurement setup

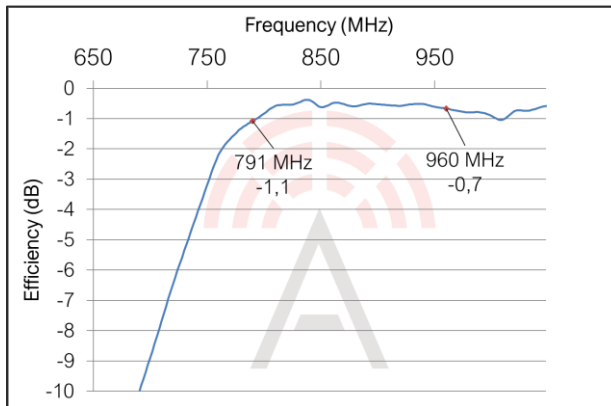


Return loss

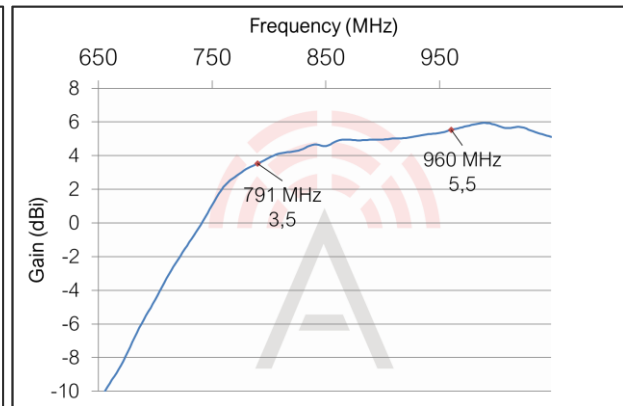


The antenna measurements were done in free space, with the antenna implemented on a 50 x 120 mm PCB.

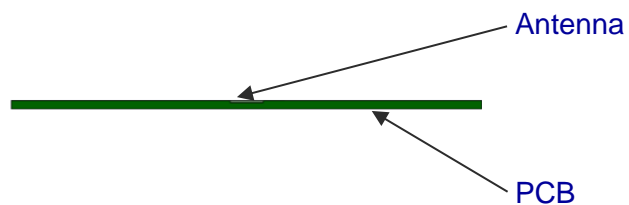
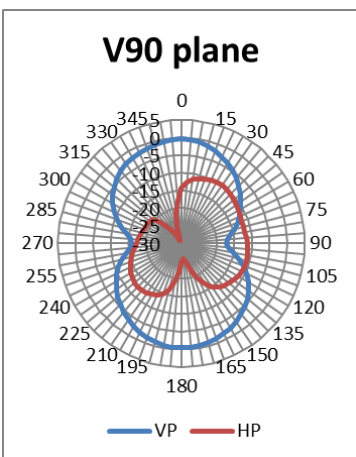
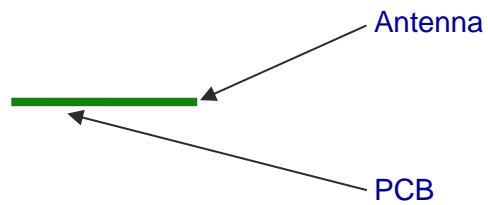
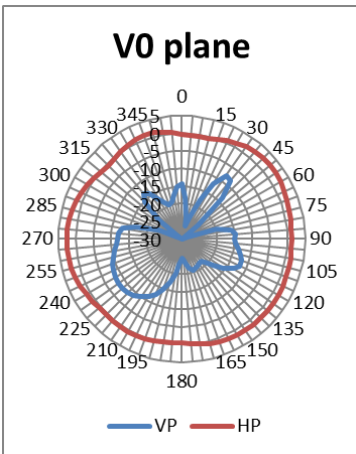
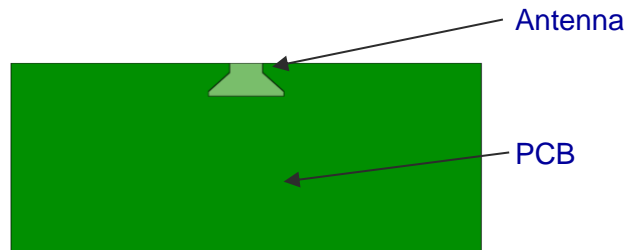
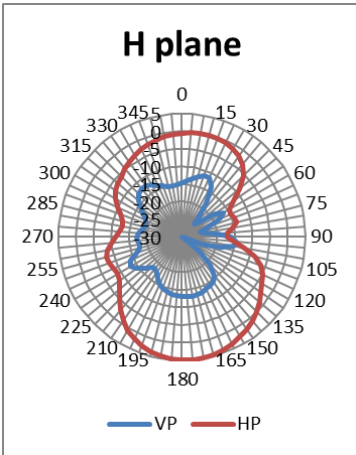
Total radiation efficiency



Maximum radiation gain



Radiation pattern, 876 MHz



Intended applications

The antenna is optimized for operation in the NB-IoT bands 8 and 20 (791-960 MHz).

Licensing information

License agreement information, terms and conditions, and design advice are provided upon request. Please send all requests to info@proant.se.

Disclaimer

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