

Cinterion® Support Package

AP04

5G mmWave Pre-Approval RF measurements



Motivation

During the development, deployment and ramp-up phases of your project, you can be sure of our professional support – one of the most valuable and outstanding qualities of working with Telit Cinterion. The goal of our support is to increase product reliability, reduce the time to market and reduce your development cost. Based on our long-term experience we have developed the most suitable support packages and workshops for each project phase.

Package Description

The antenna is a key element in a wireless application. The performance of the antenna influences both the quality of transmission (network coverage) and the generation and radiation of unwanted emissions. With 5G and mmWave new challenges rise which require strong collaboration from the very beginning of your new application.

The Pre-Approval test has the aim to check if the device fulfills the requirements for the target market. Also during the test our engineer will verify if the application does not interfere with any frequencies outside the GSM/GPRS, WCDMA/HSPA, LTE, LTE-M, NB-IoT and 5G spectrum.

Security Consulting

Design-In Consulting

Schematics, Layout Review

Hardware Consulting

Antenna, ESD, Spurious, Thermal

Software/Application Consulting

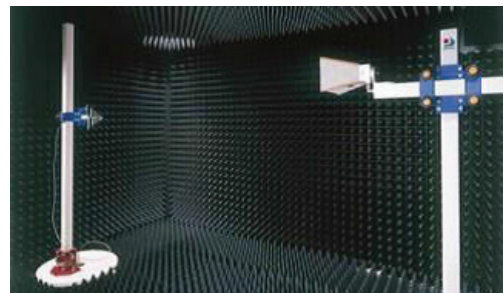
ATC, USB, MUX, RIL

Approval Consulting

Protocol, Toolkit, SIM (SW, HW)

Production Consulting

Production line, End of Line



Package Offer

Package Content

- | Tests according to ETSI EN 301 908-1, 3GPP TS 138 521-1 & 3GPP TS 138 521-2
- | Output RF spectrum emission
- | Transmitter power
- | Transmit signal quality

Requirements/Pre-Conditions

- | Provide the application with access to the 5G modem/modem card e.g. via USB and a user/handling guide
- | Provide the design files (e.g. schematics, layout)
- | Antenna track calculation and PCB stack up
- | All accessories of the device e.g. charger, power supply, antennas, cradle, headset, adapters and data cable

Results/Outcome

- | Report according the harmonized standard for specific measurement
- | Detailed description within the report with possible improvements

Conclusion – Next

Our experienced engineers will be glad to share their expertise with you, to improve the hardware and software design of your application. We offer further project attendant services which may be valuable for your project. Feel free to contact our representative for further information.



Estimated effort:

4 Weeks

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