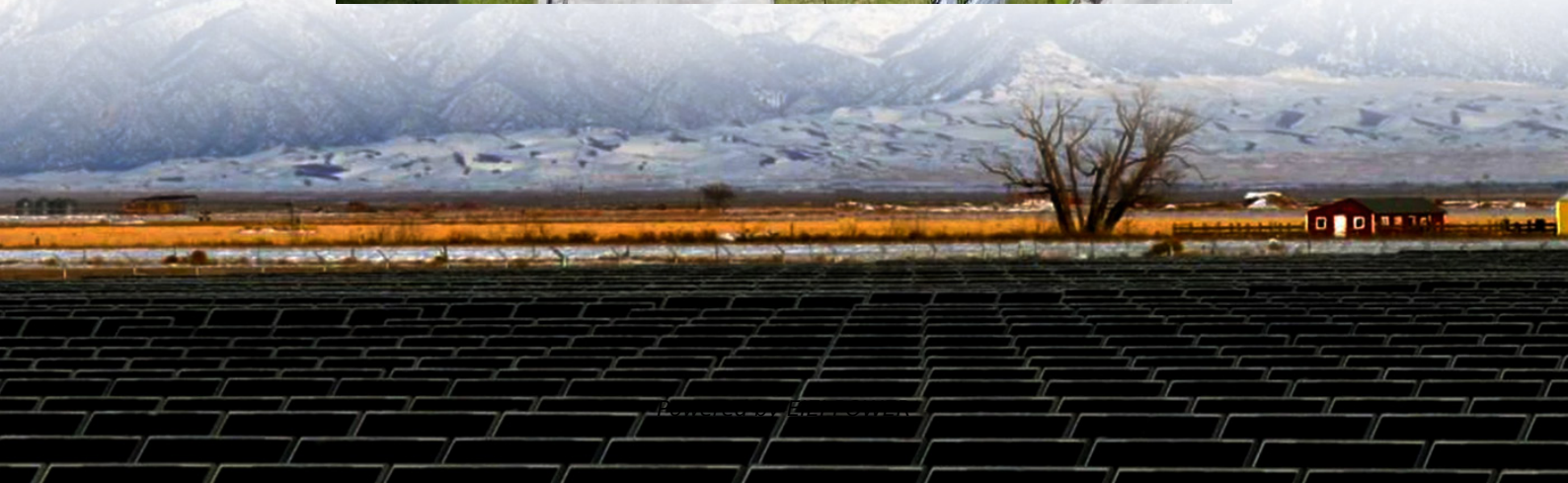


Acceptance Specifications for Communication Engineering Base Stations





Overview

What are 3GPP base station conformance testing requirements?

We start with a quick overview of 3GPP base station conformance testing requirements. 3GPP defines the radio frequency (RF) conformance test methods and requirements for NR base stations in the technical specification TS 38.141, which covers transmitter (Tx), receiver (Rx), and performance (Px) testing.

Do base stations need to pass conformance tests?

Base stations need to pass conformance tests in the region where they will be installed before they can start operation in the field. For base stations the 3GPP specification TS 38.141 covers transmitter and receiver characteristics of base stations as well as receiver performance under noise and fading conditions.

How are NR base stations certified?

The NR base stations are now certified using several type acceptance criteria including TAC 0052, TAC 0073 and TAC 0114, which draw reference to the relevant specifications published by the 3rd Generation Partnership Project ("3GPP") as follows for selected test items to ensure efficient use of radio spectrum and to avoid harmful interference –.

What are the components of a base station?

The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices. The block diagram of a base station typically includes the following key components: Baseband Processor: The baseband processor too deals with different communication protocols and interfaces with mobile network infrastructure.



Acceptance Specifications for Communication Engineering Base Sta



Base Stations

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Dec 8, 2023 · Overview of 3GPP Base Station Conformance Testing 3GPP defines the radio frequency (RF) conformance test methods and requirements for NR base stations in the ...



TS 138 113

Aug 5, 2024 · TECHNICAL SPECIFICATION 5G; NR; Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.20.0 Release 15)

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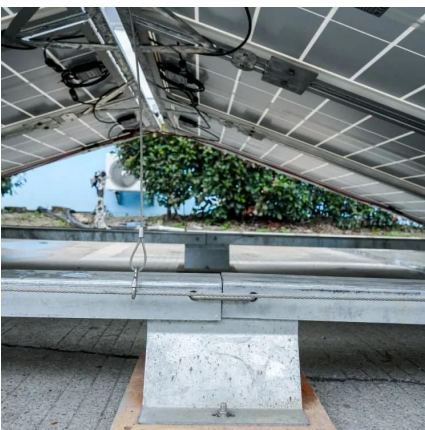
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