

Chilean Communications 5G base station installation





Overview

How to configure Quectel as a 5G modem for a host machine?

Once having the Quectel successfully connected to the base station and being able to establish a communication, we will configure the Quectel module as a 5G modem for a host machine. Hence, we will have to configure NetworkManager (nmcli) to add a new GSM connection.

Do I need a 5G module?

A 5G module will be required to test the 5G Network Setup, being able to test the association between the 5G module (with a SIM) and the gNB (base station). This module and evaluation board will be used as UE (user equipment). Warning It is crucial to work within a native python3 environment.

Which 3GPP base station supports 5G NR 5G New Radio?

The 3GPP 5G Next Generation base station which supports the 5G NR (5G New Radio). Therefore, we will setup the base station and configure it to be able to integrate the SDR, specifically, an URSPB200-mini. Quectel RM500Q-GL + Quectel 5G-M2 EVB.

What is a 5G Brain Center?

Often referred to as the brain center, this includes: Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System



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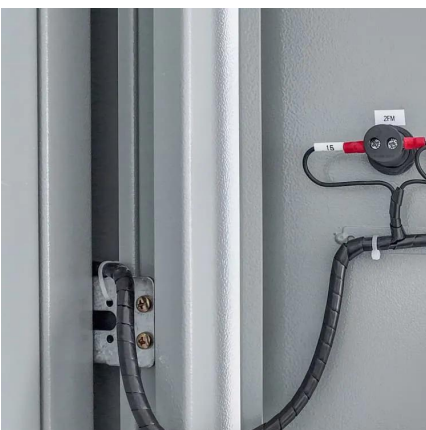
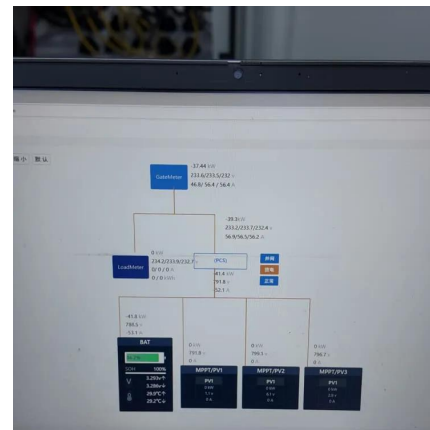


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