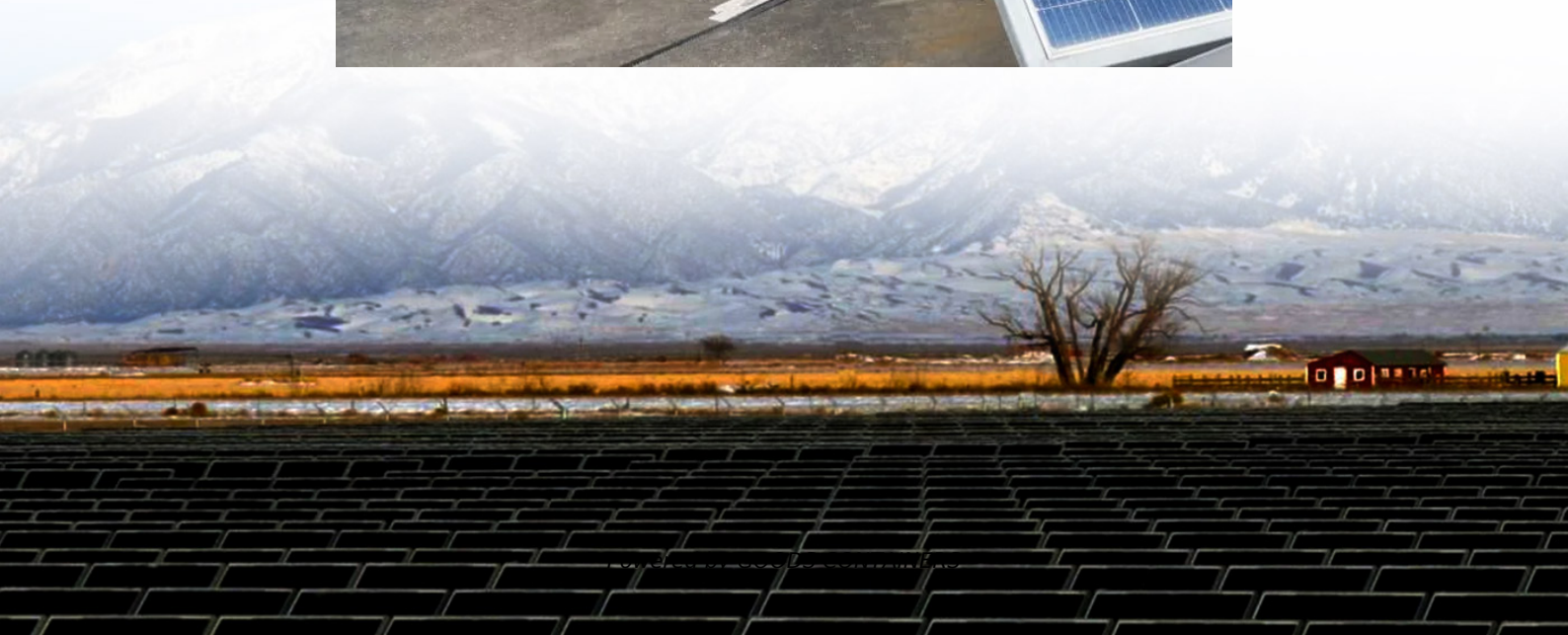


Open Source Communications and Base Station Equipment





Overview

What can you do with a base station?

There's plenty of fun things you could achieve with such a base station: reverse-engineering of proprietary technology, security research, and probing for vulnerabilities through WWAN interfaces rarely considered as an attack surface. Maybe you could even set up your own cell network — if you ever go sailing in neutral waters, that is.

How many base stations are there in the Interent dataset?

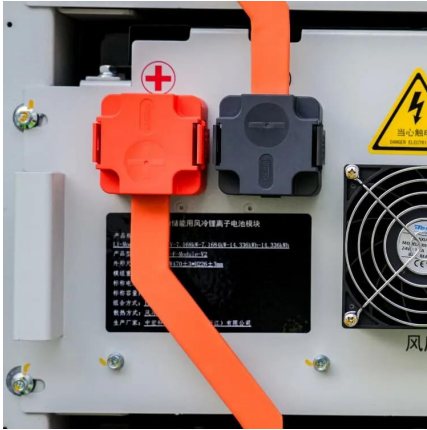
The dataset, provided by Shanghai Telecom, contains more than 7.2 million records of accessing the Interent through 3,233 base stations from 9,481 mobile phones for six months. For example, the following figure shows the distribution of base stations. Each node denotes a base station in Shanghai, China.

Do you need a 2G base station?

As such, grab your Faraday cages and lead-lined fridges, and make sure that you don't cause any illegal interference if you do end up exploring this path. We've generally seen 2G base stations over the years, but with the sunset of 2G, those have only been useful in an increasingly low number of countries, and, every once in a while, a hacker camp.



Open Source Communications and Base Station Equipment



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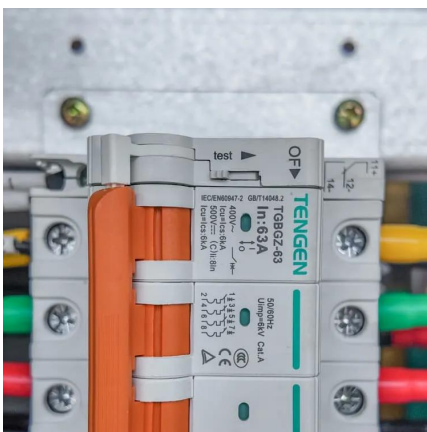
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Mar 3, 2024 · We've seen quite a few DIY 2G networks over the years, but the 4G field has been relatively barren. Turns out, there's an open source suite called srsRAN that lets you use



an ...



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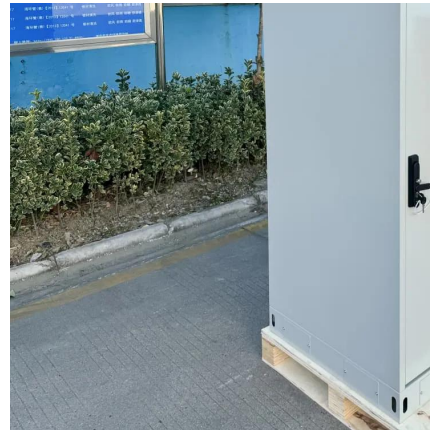
System principle: Using LW-USRP/SDR-LW software radio hardware, combined with srsRAN, OpenAirInterface5g and other software platforms, to achieve the construction of 4G/5G analog ...





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