

# **Voltage levels of 5G base stations in Switzerland**



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### In Situ Assessment of 5G NR Massive MIMO Base Station Exposure

During the measurement campaign, four base station sites were investigated and the exposure induced by the NR massive multiple-input-multiple-output (MaMIMO) antennas was assessed at 22 positions,

### In Situ Assessment of 5G NR Massive MIMO Base Station Exposure

In an initial in situ measurement campaign, an assessment of the exposure from fifth-generation base station antennas (New Radio (NR) massive multiple-input-multiple-output (MaMIMO)) was carried



### How is it possible to have high voltage and low current? It seems to

7 One word: Resistance. Recall that Voltage is calculated by multiplying the current by the resistance. You can have a high potential difference (which is what voltage is), and a low current,

### TS 138 113

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus at residential, commercial and light



industrial environments. The levels, however, do not cover extreme



### **EMF related country-specific information for Switzerland , BEREK**

Certain cantons have been monitored for several years. The placement of the base stations is published in the geographical map and many technical aspects of 5G are explained on the OFCOM site. Health

### **What exactly is voltage?**

The total voltage you get from one out and back, even with a high temperature difference is pretty small. By putting many of these out and back combinations together, you can get a useful voltage. A single



### **What is "forward" and "reverse" voltage when working with diodes?**

The reverse voltage is the voltage drop across the diode if the voltage at the cathode is more positive than the voltage at the anode (if you connect + to the cathode). This is usually much

### **How are current and voltage related to torque and speed of a**

Voltage instead "regulates" how fast a motor can run: the maximum speed a motor can reach is the speed at which the motor generates a voltage (named "Counter-electromotive force")



### **Human exposure to EMF from 5G**



## base stations: analysis, evaluation

Performance of three different methodologies and equipment (broadband probes, spectrum analyzers, and drive test scanners), in the context of human exposure to electromagnetic

### [How to reduce DC voltage using resistors?](#)

How would one go about using a 12 V DC power source to power something which needs 4.5 V DC using resistors? Is there a way to determine how much adding a resistor would drop the



### [IEC approves new 5G EMF exposure assessment](#)

The new standard specifically focuses on test methods to achieve the most accurate assessment of 5G base stations. It recommends using the 'actual

## What, exactly, is voltage?

We say that voltage is like pressure, or like gravitational potential energy, because we're trying to draw an analogy to something that you can see or feel (because you can drop a rock on



## How much voltage/current is "dangerous"?

Likewise, if the current and voltage are below a certain level, a person can--given enough time--safely absorb an arbitrarily large amount of electrical energy. Further, if voltage is sufficiently low, the

## [In Situ Assessment of 5G NR Massive MIMO Base Station](#)

This paper describes the assessment of radiofrequency (RF) electromagnetic field (EMF) exposure from fifth generation (5G) new radio (NR) base stations in a commercial NR network in Bern, Switzerland.



## [Do electrons actually flow when a voltage is applied?](#)

The important thing is this: charge carriers (electrons being one of such) can be used to transmit an electromotive force (usually called just voltage). This is a pretty ordinary concept, really.

## [How to calculate voltage drop over and power loss in wires](#)

How do I calculate the voltage drop over wires given a supply voltage and a current? How do I anticipate on voltage drop so that the final load has the correct supply voltage? What will be the power



## [Accurately assessing EMF exposure from 5G](#)

This white paper provides information related to human exposure to radio frequency electromagnetic fields (RF EMF) from the base stations in the new 5G networks and describes how to accurately

## **Is it okay to use a power supply that provides slightly more voltage**

Any device will only draw as much current as it needs, so long as its power source can supply it. However, the laptop adapter's voltage is a full volt above the specified 18 V; this will cause more



### [Technical Report: Measurement Method for 5G NR Base Stations](#)

With the introduction of New Radio (NR) as a technology in the 5G mobile telecommunication networks, it is necessary to develop a reference method for measuring field levels of NR installations in indoor

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