

What electrical protection does 5G base station have

Why should a 5G base station be protected?

In addition to potential damage originating on the power line, the base stations must be sturdy to environmental electrical hazards such as lightning and electrostatic discharge (ESD) strikes. Design engineers need to protect their 5G base stations from these electrical hazards to prevent damage to the bases station and avoid critical downtime.

What is a 5G base station?

The base station connects to all wireless devices attempting communication within that geographic or coverage area. A 5G base station will include advanced, active antenna systems populated by numerous antennas in multiple input-multiple output (MIMO) configurations. These antennas provide: More efficient delivery of RF power. Figure 1.

How will 5G work?

The power levels of the radio signals transmitted by 5G radio equipment will be of similar or lower magnitude as those used in previous networks. 5G devices will be designed and tested to comply with established radio wave exposure limits. 5G base stations will be positioned so that the exposure in homes and public areas is well below the limits.

Is 5G safe?

5G equipment, whether it be mobile devices or base stations, meet the same safety standards as the equipment used in current networks. SustainabilityRadio5G 5G is the next step in the evolution of mobile communication

Why do mobile radio sites need a 5G network?

5G aims to establish a comprehensive global network, driving the need for more mobile radio sites to manage this technological advancement. However, challenges arise from limited installation spaces and decreasing areas. Smaller systems are generally preferred due to market developments.

What are the benefits of 5G?

To meet the demands of the new applications and use cases, the capabilities of 5G will extend far beyond previous generations of mobile communication. Examples are very high data rates, very short delay (latency), ultra-high reliability, high energy efficiency and ability to handle many more devices within the same area.

The external lightning protection system consists of an air termination system, down conductor and earth-termination system. The internal lightning protection system encompasses lightning ...

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