

# Do communication base stations have an impact on lightning

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Multiple pathways such as direct lightning strikes and lightning intrusion are unsafe factors for base stations in thunderstorm weather. Solving the lightning protection problem of communication base ...

Due to the wide distribution of mobile communication base stations, the location is at the commanding height and is vulnerable to lightning strikes. Lightning is very destructive.

In most cases, serious lightning failures in radio communication stations are caused by direct lightning stroke either to the low voltage power line near the radio station or to the communication tower or mast.

As climate change increases lightning density by 12% per decade (NOAA 2024 data), the industry must adopt adaptive protection systems. The next-generation communication base station lightning ...

Thunderstorms pose a severe threat to mobile communication base stations, which are often deployed in high-altitude, open, or exposed environments. A single lightning strike can damage critical telecom ...

As mobile communication base stations are widely distributed and located at commanding heights, they are prone to lightning disasters. Lightning is highly destructive.

When the overhead pipeline encounters lightning strikes, the overvoltage is introduced into the base station room, which is likely to burn out the communication equipment of the base station.

In base station lightning protection design, the grounding grid and ground busbars are key components. With proper design, they can effectively reduce the impact of lightning on the station.

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