

What power supply does the AP base station need





Overview

Do APS need a power supply?

If power adapters are used to supply power to APs, power supplies nearby are needed, whereas PoE power supply does not have this requirement. Generally, you only need to deploy one PoE access switch to provide PoE input for APs. When deploying PoE power supply, note the following: The longer the network cable, the weaker the power supply.

Can APs use PoE power supply?

In most indoor scenarios, APs can use PoE power supply, which offers the following advantages: Network cables for data transmission can be reused for supplying power to APs, eliminating the need of additional and therefore reducing construction costs. No additional power adapter is required, reducing the investment.

Can APS be powered by DC power adapters?

Figure 2-8 PoE adapter If PoE power supply is unavailable, APs can be powered only by DC power adapters. When routing network cables, pay attention to the following rules: Reserve 5-meter network cable for fine-tuning AP positions to reduce interference or optimize signal coverage.

Do I need to ground an AP?

Connecting AP to the power source with the use of a very long or non-certified cable can result in a higher power draw at the power source. When you use external or industrial APs, it is crucial to ground them. Refer to the 'AP deployment guides' for further information on the results of not properly grounding the AP.



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AP Deployment Design

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May 25, 2025 · Building better power supplies for 5G base stations Authored by: Alessandro Pevere, and Francesco Di Domenico, both at Infineon Technologies

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Selecting the Right Supplies for Powering 5G Base Stations

These tools simplify the task of selecting the right power management solutions for these devices and, thereby, provide an optimal power solution for 5G base stations components.

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