

A-Core Container

Communication 5g base station updated to sa



Overview

How many 5G base stations will China have in 2024?

According to MIIT, by the end of 2024, there would be 4.25 million 5G base stations, and China would be able to construct the world's largest mobile communications and optical fibre broadband network. Since the launch of 5G deployment in China, the strategic goal has been to adopt the SA model.

What is sa 5G?

By its very definition, SA 5G stands for Standalone 5G, which means it's an end-to-end 5G network. To understand how SA offers a complete 5G network, first, you need to know the intermediaries in a network. In a mobile network, there is a base station (also called core), radio antennas, and an end device (smartphone, tablets, etc.).

What is a 5G base station?

In an SA 5G network, the base station, aka core, is entirely built on the 5G specification, which is devised by the 3GPP (organization that develops standards for mobile telecommunication). The radio antennas are also based on 5G specifications, and lastly, the end devices must also support the 5G NR bands.

What is a standalone 5G network?

Standalone (SA): standalone networking. SA uses an end-to-end 5G network architecture, where 5G standards are used on terminals, base stations, and core networks. SA supports a variety of 5G new services, including eMBB, URLLC, and mMTC, and is applicable to the middle and later stages of 5G network construction. Routers support NSA and SA.

How many 5G SA networks are there?

Dell'Oro Group said 61 5G SA networks have been deployed since 2020 and expects a dozen more to launch in 2025. According to Ericsson, by the end of

September 2024, over 60 service providers had deployed or launched public 5G SA networks.

How many 5G sites are there in China?

Mobile operators in China are ramping up 5G and 5G-A rollouts, with the former now at 4.5 million cell sites and the latter in 300 cities; a new 2027 roadmap will see 75% of mobile data in the country on 5G networks. 5G on 5M sites – China has over 4.486 million 5G sites; 5G now comprises more than 35% of total mobile base stations.

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