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Communication 5G base station news



Overview

What is China's first military-grade mobile 5G base station?

Please contact us for more information. China unveils the world's first military-grade mobile 5G base station, developed by China Mobile Communications Group and the PLA, designed for battlefield use to enable seamless communication for up to 10,000 military robots and drones within a 3-kilometer radius.

What is a mobile 5G base station?

The mobile 5G base station, developed jointly by China Mobile Communications Group and the People's Liberation Army (PLA), can offer high-speed, secure and reliable data exchange services to at least 10,000 users within a 3km radius, according to a South China Morning Post report.

Will China build a 5G base station next year?

Technicians from China Mobile check a 5G base station in Tongling, Anhui province. [Photo by Guo Shining/For China Daily] China aims to build over 4.5 million 5G base stations next year and give more policy as well as financial support to foster industries that can define the next decade, the country's top industry regulator said on Friday.

Does China have a military 5G network?

The military 5G also makes use of China's latest civilian technologies. As of November 2024, China had built nearly 4.2 million civilian 5G base stations, far exceeding any other country. "The operation of such a vast network necessarily requires powerful automation tools and means, among which automatic station opening technology is one.

How does military 5G differ from civilian 5G?

However, existing military communication technologies cannot meet the massive data exchange demands among thousands of robots. Military 5G

differs significantly from the civilian version. The PLA demands uninterrupted connectivity in the absence of ground base stations or when satellite signals are compromised.

How does a military 5G system work?

For instance, small communication terminals on the user side can transmit data at ultra-high power—up to 400 megawatts—under electromagnetic suppression while maintaining low energy consumption for long-term operation. The military 5G system also incorporates cutting-edge civilian technologies.

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