

Coal mine mobile communication system base station





Overview

What is caojiatan coal mine's 5G iCUBE cloud-network integration solution?

In a response to the call for intelligent construction of coal mines, Caojiatan Coal Mine cooperates with China Unicom Shaanxi Branch, Shaanxi ZHIN Technology and ZTE, and adopts ZTE's 5G iCube cloud-network integration solution to construct the 5G communication system for intelligent mining.

What technology does a mine use?

Traditional mines mainly use 4G cellular network, Wi-Fi and other wireless communication technologies.

Why should you choose caojiatan coal mine?

Relying on the 5G digital communication foundation, Caojiatan Coal Mine has successfully established innovative intelligent systems covering smart grid maintenance, smart belt detection, automatic drainage control, smart frequency conversion ventilation, and smart auxiliary transportation. All systems operate in good conditions.

Is Shaanxi Coal Mine a good project?

As a large-scale coal mine demonstration base developed in accordance with China's 12th Five-Year Plan, it has been rated as an excellent industrialization-informatization integration project by the China National Coal Association and a high-quality engineering project by Shaanxi Coal Industry's Construction Project Quality Supervision Center.



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[Coal mine 5G wireless communication system construction ...](#)

The basic architecture of 5G wireless communication system in coal mine is proposed: 5G core network, base band unit (BBU), remote radio unit hub (RHUB) and 5G base station are ...

[KT661 \(5G\)-F Explosion-proof and Intrinsically Safe Communication Base](#)

The base station is a kind of coal mine communication equipment for 5G wireless communication in coal mines. It is used with 5G terminals and 5G smart gateways, supporting mobile voice ...



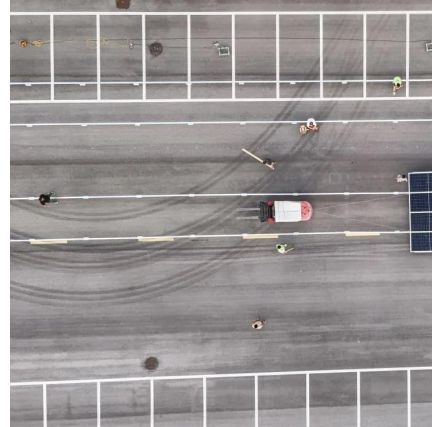
[Underground Wireless Communication Systems for Coal Mines](#)

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[5G Empowers Caojiatan Smart Coal Mine](#)

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Operations at the Thar Coal Mine in Pakistan were being hampered by the fact that the various subcontractors working in the Block 1 area were using different radio systems. Hytera supplied ...



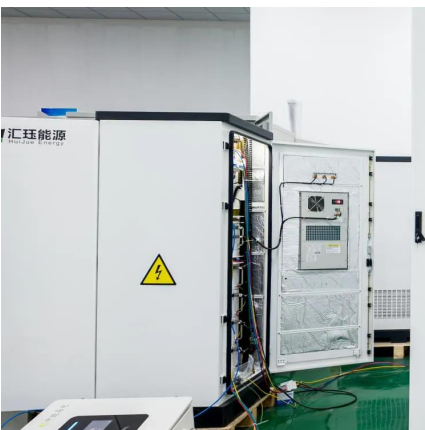
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Research and development of 5G communication system standards for coal

The transmission power of the base station in the open-pit coal mine is ≤ 320 W. The wireless transmission power of the terminal in the open-pit coal mine is ≤ 6 W. (5) The base station ...





Mine 5G wireless communication system

Apr 29, 2022 · With the advanced management concept of coal mine and the design concept of unmanned and less populated coal mine, the 5g multi base station wireless communication ...



Underground Coal Mine Wireless Mobile ...

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Underground Coal Mine Wireless Mobile Phone Communication System

Nov 28, 2025 · It is a communication product specially designed and developed for mining enterprises, which realizes the wireless mobile communication between underground mobile ...



Research and development of 5G communication system standards for coal

In order to meet the needs of remote monitoring, video monitoring, data acquisition, and voice communication in coal mines, the 5G communication system used in coal mines should have ...



[5G Empowers Caojiatan Smart Coal Mine](#)

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[Dual-frequency 5G networks for smarter coal mining](#)

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