

## High-density intelligent cold aisle technology for 5G base stations

DATA ADJUSTABLE, EASY TO USE



SET INCREASE DECREASE POWER SWITCH



## High-density intelligent cold aisle technology for 5G base stations



CooliBlade's innovative thermal management technology ensures reliable, efficient, and lightweight cooling for 5G network infrastructure, enabling uninterrupted performance in all environments.



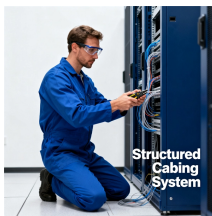
Direct-to-chip liquid cooling is currently the most widely adopted approach, offering precise and efficient thermal management for high-density electronic components within base stations.



Abstract: As data traffic and information services surge, 5G base stations (BSs) have become primary energy consumers in wireless networks, with cooling accounting for 40% of BS power use and ...



To address the thermal challenges associated with 5G base stations, various cooling solutions have been developed and implemented. These solutions can be broadly categorized into ...



With the large-scale construction of 5G base stations and the increasing demand for cost-effective and environmentally friendly cooling solutions, liquid cooling solutions will become the future ...



With the rapid development of 5G technology, the integration and power density of communication equipment continue to increase, exacerbating these problems. To address these ...



The goal of a hot or cold aisle configuration is to conserve energy and lower cooling costs by managing air flow. Designing the proper containment system requires lining server racks in rows (or aisles) with ...



By mapping trade-offs across performance, cost, and sustainability, this study offers actionable insights for data centre operators, designers, and policy stakeholders navigating the path ...



In response to the current widespread issue of high energy consumption in 5G base stations, this article conducts overall design, hardware design, and software design of the base station energy-saving ...



Innovations in coolants, heat exchangers, pumps, and intelligent controllers are enhancing the reliability, scalability, and ease of integration of liquid cooling systems into existing and new 5G base station ...



EdgeOne™ is AIRSYS' purpose-built solution for high-efficiency ICT and mobile stations cooling. Designed for low energy consumption, intelligent control, and easy deployment, it addresses the ...

## Contact Us

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