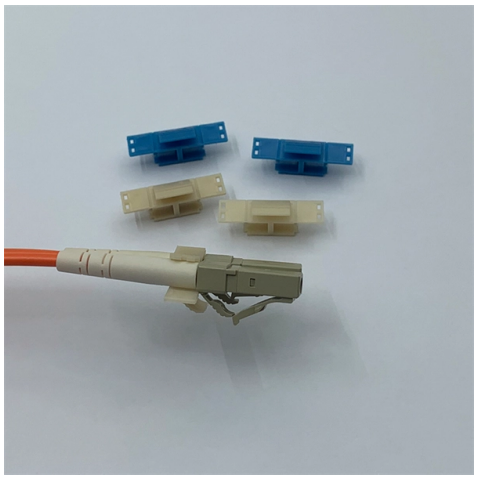
Huawei s latest micro-module



Overview

The modular data center, comprised of micro modules, has become more and more popular. The modules'' flexibility and predictability are highly valued by telecom carriers.

Key Takeaways

Huawei's latest micro-modules include the FusionModule2000 for modular data centers and the FusionSolar Smart Micro-grid Solution for resilient energy management. FusionModule2000: Smart Modular Data CenterThe FusionModule2000 is Huawei's newest generation of smart modular data center solutions, designed for small to medium-sized data centers. It integrates power supply, cooling, rack structure, cabling, and management systems into a single modular unit, enabling quick deployment and on-demand scalability.

The solution uses an air-cooled system, which reduces room height and reconstruction requirements, making it suitable for enterprise headquarters, banks, government offices, carriers, education, and healthcare facilities. Its modular design enhances reliability, operational efficiency, and energy management, improving overall data center availability and maintenance efficiency.

Fusion

Solar Smart Micro-grid SolutionHuawei's FusionSolar Smart Micro-grid Solution focuses on resilient, independent, and green energy supply. It integrates several key components: Smart PV Controllers (SUN2000 series): Achieve up to 99% efficiency in converting solar energy. Smart String Energy Storage System (LUNA2000 series): Stores excess energy for use during low generation or high demand periods.

© 2026 QK FIBER SYSTEMS - All rights reserved

Smart Power Conversion System (PCS): Converts stored energy into usable electricity, maintaining stability even in islanding mode. Jupiter Smart Transformer Stations: Step up low-voltage solar output to medium-voltage levels for grid integration. The system is modular and scalable, allowing deployment from small microgrids to large solar farms.

It features intelligent management, real-time monitoring, fault detection, and proactive maintenance, which reduces operational costs and enhances system longevity. Safety mechanisms protect against overvoltage, internal arcing, and environmental hazards, ensuring both equipment and grid security.

Applications and Impact

Data Centers: FusionModule2000 enables rapid, reliable, and energy-efficient deployment of modular data centers. Renewable Energy & Microgrids: FusionSolar supports enterprise green power supply, disaster backup, and utility-scale renewable energy projects. Notably, it powers the world's largest renewable-based microgrid in Japan and supports resilient energy supply in Saudi Arabia.

Huawei's latest micro-modules combine modularity, efficiency, and intelligent management, making them suitable for modern data center operations and sustainable energy infrastructure.

Article Content

Smart Modular Data Center Facilities

The modular data center, comprised of micro modules, has become more and more popular. The modules'' flexibility and predictability are highly valued by telecom carriers.

Smart Micro Modular Data Center Solutions

Discover Smart Micro Modular Data Center Solutions with One Row One DC, delivering integrated power and cooling, flexible scalability, and reliable

Huawei''s Intelligent Micro-Module Tops China''s Micro-Module Data

Huawei has unveiled an innovative intelligent micro-module solution designed to aid enterprises in swiftly deploying large-scale AI models.

Huawei Intelligent Micro Module 6.0 creates a green and intelligent ...

Huawei''s new generation of intelligent micro-module 6.0 is a one-stop solution for small and medium-sized data centers. It integrates power supply, cooling, cabinets, channels, wiring,

Huawei unveils grid-forming PCS

© 2026 QK FIBER SYSTEMS - All rights reserved

Huawei Digital Power has launched a new generation of smart string grid-forming power conversion system (PCS) at SNEC 2026 in Shanghai, expanding its grid-forming technology portfolio

Huawei AI CloudMatrix 384 – China''s Answer to Nvidia GB200 NVL72

Huawei is making waves with its new AI accelerator and rack scale architecture. Meet China''s newest and most powerful Chinese domestic solution, the CloudMatrix 384 built using the

Huawei Intelligent Micromodule Deploys DeepSeek Big Model for

Through the deep integration with Huawei''s intelligent micro-module solution and Huawei''s Rise Computing Power, Shenyang Institute of Technology will build a highly efficient and stable localized

Breaking: Huawei announces 1.4 nm Kirin chip technology

Huawei will unveil a high-end chip design that will improve transistor density to levels equivalent to a 14A (1.4 nm) process by 2031. That''s a big

Modular Data Center

It is a highly integrated solution that comprises the power supply, cooling, rack and structure, cabling, and management systems within a modular design. The structure of the module can be single-row or

Huawei unveils smart micro-module 6.0 and effective battery solutions

With AI applications and Huawei''s software implementations, the product is significantly durable and firm in every aspect. The latest micro-module 6.0 focuses on three concepts: zero risks,

Huawei releases a new Smart Micro Module 5.0 data center solution

Huawei has officially released a new generation of modular data center-Smart Micro Module 5.0 solution at the Digital Energy China Tour 2020 - Beijing.

Huawei''s latest handset uses improved China-made

The Kirin 9030, the chip that powers Huawei Technologies'' latest flagship Mate 80 series handset, has been manufactured by China''s top foundry

Huawei Technologies'' Latest AI Processors Were Made by TSMC

An investigation of Huawei Technologies Co.''s latest AI offering has unearthed an advanced processor made by Nvidia Corp. manufacturing partner Taiwan Semiconductor

Huawei''s latest mobile is armed with China''s most advanced process

© 2026 QK FIBER SYSTEMS - All rights reserved

Huawei''s latest mobile is armed with China''s most advanced process node to date despite using blacklisted chipmaker — Huawei Kirin 9030 mobile SoC made on SMIC N+3 process,

Huawei''s new foldable provokes scrutiny over Chinese

Huawei''s new foldable provokes scrutiny over Chinese-made chips The Mate 60 Pro+ and Mate X5 are likely based on Huawei''s locally-made chip.

China''s Huawei, SMIC Make Progress With Chips,

China''s Huawei, SMIC Make Progress With Chips, Report Finds An advertisement for the Huawei Technologies Co. Mate 80 Pro Max smartphone

Teardown of Huawei''s new phone shows China''s chip

Huawei Technologies and China''s top chipmaker SMIC have built an advanced 7-nanometer processor to power its latest smartphone, according to a

Key products in Huawei''s AI chips and computing power roadmap

China''s Huawei (HWT.UL) has ended years of secrecy to detail its product roadmap for chips and computing power systems, discussing for the first time how it intends to challenge global

Contact Us

Continue your research online:

Website: https://qualitykitchens.co.za
Technical inquiry: https://qualitykitchens.co.za/project-desk.html
African project coordination: Umhlanga Ridge, Durban, KwaZulu-Natal, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 QK FIBER SYSTEMS - All rights reserved