

Features of the Qatar Smart Micro-Module



AI Overview

The Qatar Smart Micro-Module is a modular, AI-enabled data center solution with advanced lithium battery technology, automated operations, and high energy efficiency.

Modular and Flexible Design

The Smart Micro-Module is built on a modular architecture, allowing rapid deployment and on-demand expansion. Its design supports flexible investment, shortens the go-online period by up to 50%, and enables operators to scale capacity according to demand. The modules are highly adaptable to environmental conditions, operating reliably in temperatures ranging from -40°C to 55°C and featuring IP65 protection for dust and water resistance. This ensures stable operations in diverse climates and harsh environments .

Advanced Battery Technology

The micro-module uses Huawei SmartLi lithium batteries, which provide full lithium battery backup. These batteries are lightweight, high in energy density, and save over 70% of space compared to traditional lead-acid batteries while supporting the same IT load. The system also incorporates active current sharing technology, allowing the mixing of new and old batteries for smooth expansion and reduced investment costs .

AI and Intelligent Operations



Article Content

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The multiple functions of a smart module work together seamlessly, significantly reducing the bill of materials (BOM)

Qatar IoT Market Size, Growth, Share & Trends Report 2031

Qatar Internet Of Things (IoT) Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Qatar

Kahramaa has completed the installation of smart electricity meters

Modern smart meters like this come with a plethora of functions that improve user experience and operational

Smart modules white paper

Read our free white paper to understand the key features and capabilities of smart modules, which applications they serve, and why

Kahramaa completes smart electricity meter installation

The smart meter project is part of Kahramaa's broader digital transformation strategy, aimed at enhancing efficiency,

Policy and Regulations

The Smart Qatar (TASMU) Program has developed policies and standards that will serve as the regulatory framework underpinning

Invest Qatar and MCIT launch "Smarter Qatar", a joint report on

The report showcases Qatar's commitment to harnessing cutting-edge technologies for its smart country transition and emphasizes

Smart manufacturing, sustainable construction take centre stage at ...

This year's edition features a dedicated "Qatar Smart Manufacturing Exhibition," which serves as a platform for

Micro Light Variation Module

Good light management and at the same time good burglary protection. The use of LEDs combined with presence detection and

WHAT IS TASMU?

TASMU's vision is to harness the power of technology and innovation to deliver digital solutions to the citizens, residents and visitors

| TASMU SMART QATAR

|TASMU SMART QATAR|TASMU Smart Qatar is a national program aimed at developing smart solutions to improve the quality of

Smart greenhouses as the path towards precision ...

Greenhouse farming is essential in increasing domestic crop production in countries with limited resources and a harsh

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Smart IoT modules bring together previously separate functionalities – for instance computing, graphics processing,

Container System

The constructed modules allow and give the advantage to the end user, the choice of building uses to various option of design such

TASMU Smart Qatar

TASMU Smart Qatar is a flagship national program by the Ministry of Communications and Information Technology dedicated to

Internet of Things | Tasmu Digital Valley Qatar

What is the Internet of Things Market Size in Qatar? The IoT market size in Qatar was estimated at US \$614.6 million in 2022, and is

Qatar General Electricity & water Corporation

It is intended to engage an experienced Contractor for the Supply and Installation of Smart Electricity Meters with Cellular

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Tasmu building "one-of-a-kind" smart city solution

2020 saw the accelerated development of a variety of platform capabilities, including advanced reporting and analytics, identity and

TASMU: How Qatar Is Building the Smartest Cities in the Gulf

Discover how Qatar's TASMU initiative is transforming urban living through smart city development. Learn how digital innovation is

| TASMU SMART QATAR

Created as the digital response to Qatar National Vision 2030, TASMU seeks to enhance the delivery of public services in Qatar

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What makes a What are the main SMART MODULE? MODULE

SG865W QCS8250 CPU: 8x Kryo585 2.84 GHz GPU: Adreno 650 Camera: 64 MP Video: 4K @ 240 fps/ 8K @ 60 fps Wi-Fi: 2 x 2

Smart IoT Modules

The modules combine high-speed wireless connectivity with embedded multi-constellation and high-sensitivity GNSS

Kahramaa installs more than 988,000 smart electricity and water

The smart meters are designed to offer various features, such as real-time consumption tracking, prepaid payment

Innovation Renewable Energy :: Smart meters Qatar, Communication ...

The two processors which separate metrology from functionality allow for a range of features including complex tariffs, prepayment

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