

XINKE LCS

Enterprise Comprehensive
Introduction

企业综合介绍

www.xinkelcs.com



ABOUT XINKE

关于芯科

唐山市芯科智能科技有限公司，雄踞于华北工业重镇——河北省唐山市古冶区经济开发区，是一家在全球液冷技术领域崭露头角的科技创新型企业。公司集区块链、高性能计算（HPC）及人工智能（AI）数据中心的先进液冷基础设施的研发、制造与销售于一体，以科技创新为引擎，驱动绿色数字未来的建设。

Tangshan Xinke Intelligent Technology Co., Ltd. Strategically located in the Economic Development Zone of Guye District, Tangshan City, Hebei Province—a major industrial hub in North China—Tangshan Xinke Intelligent Technology Co., Ltd. is an emerging technology innovation enterprise making its mark in the global liquid cooling technology sector. Integrating the research and development, manufacturing and sales of advanced liquid cooling infrastructure for blockchain, high-performance computing (HPC) and artificial intelligence (AI) data centers, the company takes technological innovation as its driving force to fuel the construction of a green digital future.



DEVELOPMENT HISTORY

发展历程

2016

- 成立芯科电子, 切入区块链服务器销售及维修市场, 建立首个华北地区区块链设备售后站点。

Established Xinke Electronics to enter the market for blockchain server sales and maintenance, and set up the first after-sales service station for blockchain equipment in North China.

2018

- 签约多家区块链服务器厂商官方售后, 售后团队规模突破100人, 覆盖全国60%主流场地, 服务响应时效<4小时。

We have signed official after-sales service agreements with multiple blockchain server manufacturers, and our after-sales team has exceeded 100 people, covering 60% of mainstream venues nationwide, with a service response time of less than 4 hours.

2019

- 成立芯科智能科技, 启动风冷+液冷散热系统研发, 攻克高密度算力设备散热难题, 首代产品能耗降低25%。

Established Xinke Intelligent Technology and launched the R&D of air-cooled and liquid-cooled heat dissipation systems. We overcame the heat dissipation challenges of high-density computing power equipment, and the first-generation products reduced energy consumption by 25%.

2022

- 建成智能化液冷全自主生产线, 耗时三年全力研发冷板式液冷散热方案, 经过多地部署测试老化实验, 推出室内外多种类液冷解决方案。

We have built a fully independent intelligent production line for liquid cooling systems. Devoting three years to intensive research and development of cold plate liquid cooling solutions, we have launched a diverse range of indoor and outdoor liquid cooling solutions after extensive on-site deployment, testing and aging experiments across multiple regions.

2023

- 组建液冷数据中心事业部, 重点研发液冷数据中心产品, 覆盖从单台到万台级数据中心, 推出移动式液冷数据中心模块, 可实现7*24小时场地快速部署。

Established a Liquid Cooling Data Center Division, focusing on the R&D of liquid cooling data center products covering solutions ranging from single units to 10,000-unit-scale data centers. Launched mobile liquid cooling data center modules capable of 7×24-hour rapid on-site deployment.

2025

- 区块链产品最大装机量突破2.8兆瓦, 国内移动式数据中心项目成功落地, 产品种类50+, 是行业产品应用范围最广, 自动化系统成熟度最高企业。参与国外区块链场地建设200兆瓦+。

The maximum installed capacity of blockchain products has exceeded 2.8 MW, with the successful launch of domestic mobile data center projects. The company offers more than 50 product categories, making it an enterprise with the widest product application scope and the highest maturity of automation systems in the industry. It has also participated in the construction of overseas blockchain sites with a total scale of over 200 MW.

CORPORATE CULTURE

企业文化



CORE STRENGTH OF ENTERPRISES

企业核心实力



公司拥有30,000 平方米现代化液冷装备生产基地, 位于河北省唐山市古冶区经济开发区, 是国内液冷数据中心领域规模领先、配套完整、自动化水平高的专业化制造园区。基地按精益生产规划, 设下料、焊接、电气集成、总装、综合测试、智能仓储、研发试制等全流程功能车间, 实现结构件加工、系统集成、性能验证、仓储物流一站式闭环生产。

基地配备激光切割机、等离子切管机、数控折弯机、自动焊接机器人、组焊工装、合箱工装等高端生产设备, 以及拉力试验、焊缝检测、漆膜检测、密封打压、流量压力测试等精密检测仪器, 关键尺寸精度达 $\pm 0.1\text{mm}$ 级。依托全链条自制能力与智能化产线, 基地年产能稳定在 500 兆瓦以上, 可柔性支撑 KW 级到 GW 级液冷系统批量交付, 标准产品 7-15 天快速交付, 大型定制项目 30-45 天闭环。

基地建立严格的全流程品控与追溯体系, 执行 ISO9001 质量标准, 从原材料入厂到成品出货四重检验把关, 确保产品稳定可靠。作为公司全球交付的核心支撑, 该基地为产品出口 30 多个国家、服务超 200 家主流场地与数据中心、稳居行业第一梯队提供了坚实保障。

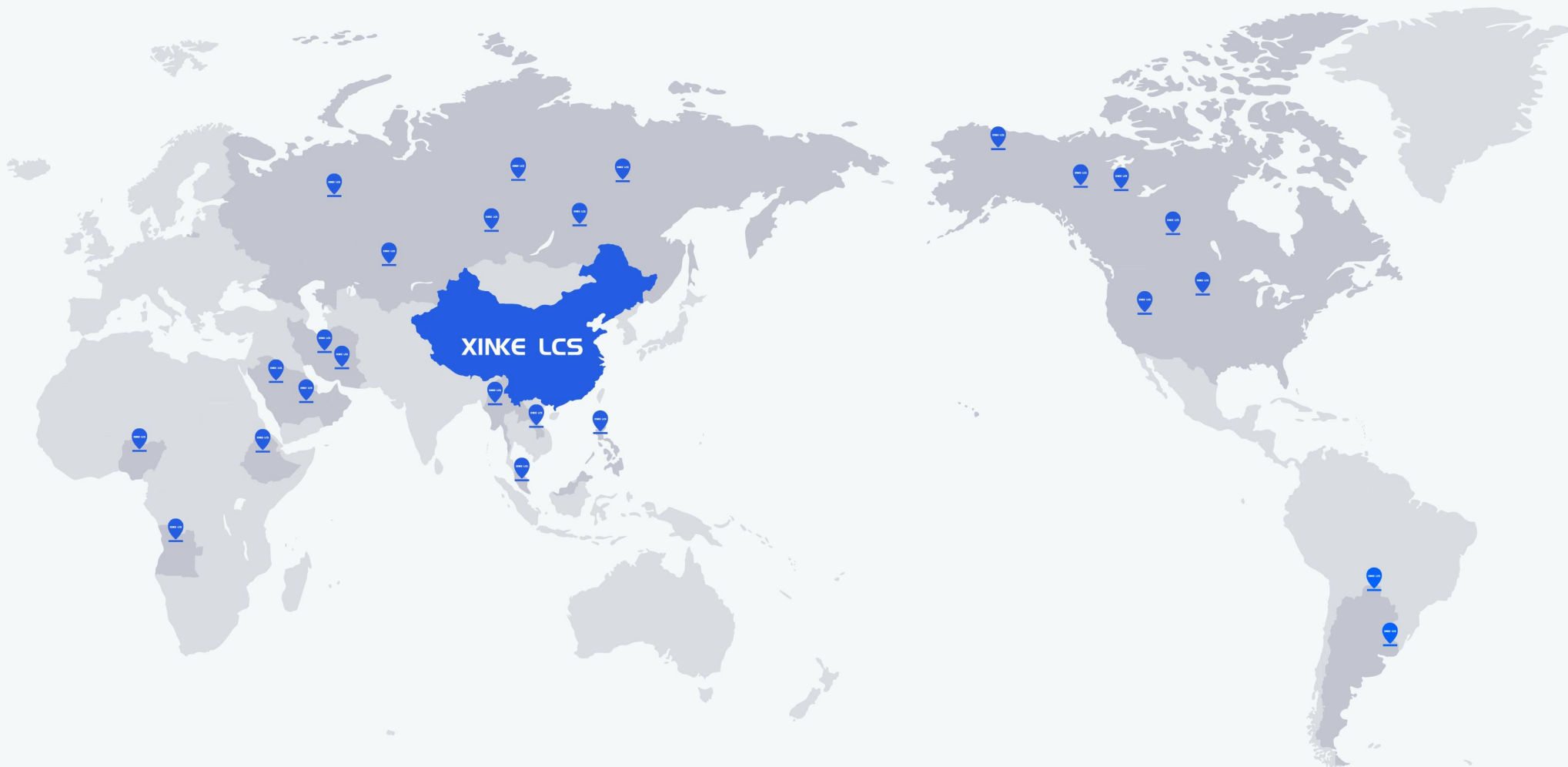
The company boasts a 30,000-square-meter modern liquid cooling equipment production base located in the Guye Economic Development Zone of Tangshan City, Hebei Province. It is a leading, fully equipped, and highly automated professional manufacturing park in the domestic liquid cooling data center field. The base is designed according to lean production principles, featuring fully functional workshops for material preparation, welding, electrical integration, final assembly, comprehensive testing, intelligent warehousing, and R&D prototyping, achieving a one-stop closed-loop production process encompassing structural component processing, system integration, performance verification, and warehousing logistics.

The base is equipped with high-end production equipment such as laser cutting machines, plasma pipe cutting machines, CNC bending machines, automatic welding robots, assembly welding fixtures, and box assembly fixtures, as well as precision testing instruments for tensile testing, weld inspection, paint film inspection, sealing pressure testing, and flow and pressure testing. Key dimensional accuracy reaches $\pm 0.1\text{mm}$. Leveraging its full-chain self-manufacturing capabilities and intelligent production lines, the base maintains a stable annual production capacity of over 500 MW, flexibly supporting the batch delivery of liquid cooling systems from KW to GW levels. Standard products are delivered rapidly in 7-15 days, and large-scale customized projects are completed within 30-45 days.

The base has established a rigorous end-to-end quality control and traceability system, implementing ISO9001 quality standards. From raw material intake to finished product shipment, four layers of inspection are conducted to ensure product stability and reliability. As the core support for the company's global delivery, this base provides a solid guarantee for exporting products to more than 30 countries, serving over 200 mainstream sites and data centers, and maintaining its position among the industry's top tier.

MARKET LAYOUT AND TERRITORY

市场布局与版图



30+

远销全球国家

100+

累计成功部署案例超

200+

服务全球区块链
场地及数据中心超

100+

为国内用户提供
专属定制液冷方案超

10

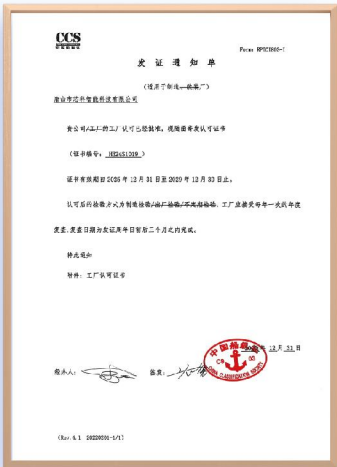
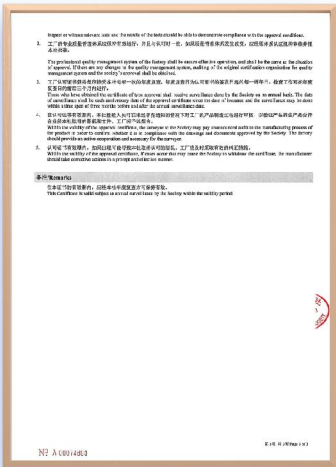
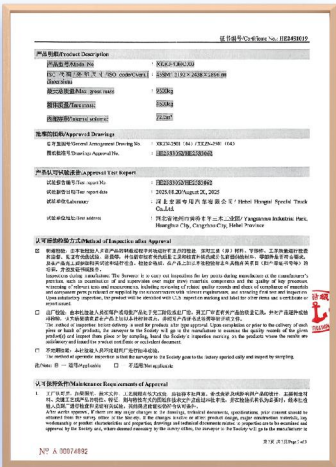
深耕行业10年

CERTIFICATE OF HONOR

荣誉证书



CERTIFICATE OF HONOR
荣誉证书



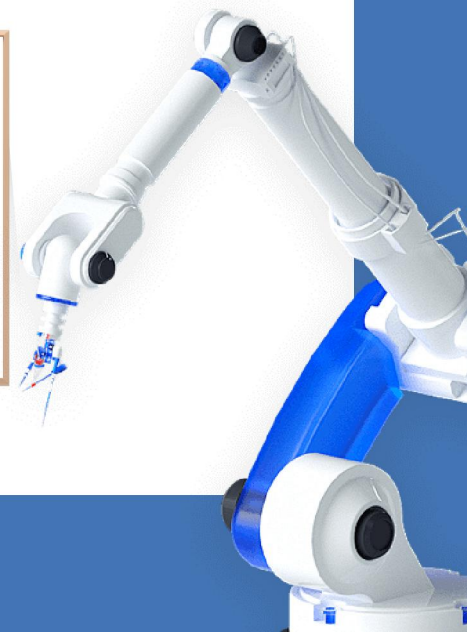
PATENTED INVENTION

专利发明



XINKE SMART 是芯科自研的智能液冷管理系统, 面向数据中心、区块链、AI算力场景, 主打液冷+电力+空调一体化智能管控。除此之外芯科的多项技术专利都在申请中, 应对未来需求芯科不断进取, 攻克一个又一个技术难题。

XINKE SMART is a self-developed intelligent liquid cooling management system by Silicon Labs, targeting data centers, blockchain, and AI computing scenarios. It features integrated control of liquid cooling, power, and air conditioning. In addition, Silicon Labs has several patents pending, demonstrating its continuous progress in addressing future needs and overcoming numerous technical challenges.



芯科智能参与了多项数据中心液冷相关标准起草, 对行业和企业自身都具备重要价值

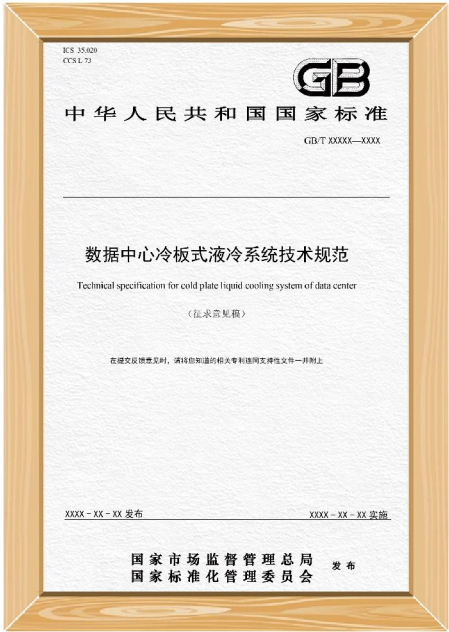
Silicon Labs has participated in the drafting of multiple standards related to data center liquid cooling, which is of significant value to both the industry and the company itself.

国家标准《数据中心冷板式液冷系统技术规范》的起草, 填补了冷板式液冷领域国家层面的技术标准空白, 统一了行业技术规范、性能要求与验收标准, 解决行业技术无统一准则、产品不兼容等问题, 规范行业发展秩序, 助力液冷技术在数据中心规模化、规范化落地, 同时也彰显了芯科智能在液冷技术领域的权威实力与行业话语权。

The drafting of the national standard "Technical Specification for Cold Plate Liquid Cooling System for Data Centers" fills the gap in national-level technical standards in the field of cold plate liquid cooling, unifies industry technical specifications, performance requirements and acceptance standards, solves problems such as the lack of unified technical standards and product incompatibility in the industry, regulates the development order of the industry, and helps the large-scale and standardized implementation of liquid cooling technology in data centers. At the same time, it also demonstrates the authoritative strength and industry influence of Silicon Labs in the field of liquid cooling technology.

The formulation of the group standard "Energy Efficiency and Low-Carbon Evaluation Specification for Liquid-Cooled Data Centers" fills the gap in the standard for low-carbon energy efficiency evaluation of liquid-cooled data centers, establishes a unified energy efficiency calculation and low-carbon assessment system, accurately responds to the industry's "dual-carbon" development needs, guides the green and energy-saving upgrade of data centers, and enables Silicon Labs to keep up with the industry's low-carbon development trend, further strengthen its core competitiveness in the field of green liquid cooling, and promote the green and high-quality development of the entire data center industry.

《液冷数据中心能效与低碳评价规范》团体标准的制定, 补齐了液冷数据中心低碳能效评价的标准短板, 建立了统一的能效测算、低碳评判体系, 精准响应行业“双碳”发展需求, 引导数据中心绿色节能升级, 也让芯科智能紧跟产业低碳发展趋势, 进一步强化自身在绿色液冷领域的核心竞争力, 推动整个数据中心行业绿色高质量发展。



校企携手 共育英才 —— 芯科智能与燕山大学深化产学研合作

Industry-University Collaboration: Cultivating Talented Individuals – XinKe Intelligent and Yanshan University Deepen Industry-University-Research Cooperation

芯科智能与燕山大学保持长期密切合作，共建实习实训基地，搭建产学研用一体化平台。
通过校企协同育人，既为高校学子提供了贴近产业的实践场景，也为企业持续引进和培养高素质专业人才奠定了基础。双方在技术研发、项目攻关、人才培养等方面深度联动，有效促进科研成果转化与产业落地，进一步提升芯科智能的创新能力和核心竞争力，为公司长远高质量发展注入强劲动力。

XinKe Intelligent maintains a long-term and close partnership with Yanshan University, jointly establishing an internship and training base and building an integrated platform for industry-academia-research-application.
Through collaborative education between the university and the enterprise, this provides university students with practical scenarios closely aligned with industry needs, while also laying the foundation for the company to continuously attract and cultivate high-caliber professionals. The two parties collaborate deeply in areas such as technology research and development, project tackling, and talent cultivation, effectively promoting the transformation of scientific research results into industrial applications, further enhancing XinKe Intelligent's innovation capabilities and core competitiveness, and injecting strong momentum into the company's long-term high-quality development.



FOUNDER PROFILE

创始人简介



王冲

创始人/董事长/CEO

王冲是唐山市芯科智能科技有限公司(芯科液冷)的创始人与核心技术负责人,在液冷行业深耕多年,是国内早期切入液冷、尤其在高密算力、区块链超算、IDC数据中心液冷领域的实战派专家。

Wang Chong is the founder and core technology leader of Tangshan Xinke Intelligent Technology Co., Ltd. (Xinke Liquid Cooling). He has been deeply involved in the liquid cooling industry for many years and is an early expert in China who has entered the field of liquid cooling, especially in high-density computing power, blockchain supercomputing, and IDC data center liquid cooling.

深耕液冷行业超 10 年,自比特大陆初代液冷服务器时期入行,拥有设计、生产到项目落地全流程经验。

With over 10 years of experience in the liquid cooling industry, having entered the field since Bitmain's first-generation liquid-cooled server era, I possess experience across the entire process from design and production to project implementation.

主导研发多款高密液冷机柜与集装箱,实现大功率密度与规模化扩展,自主攻克核心部件及关键散热技术。

Leading the research and development of multiple high-density liquid-cooled cabinets and containers, achieving high power density and large-scale expansion, and independently overcoming core components and key heat dissipation technologies.

带领团队为多场景提供液冷解决方案,推动风冷改液冷项目落地,产品以高稳定、高定制化获行业标杆口碑。

Leading the team to provide liquid cooling solutions for multiple scenarios, promoting the implementation of air-cooled to liquid-cooled conversion projects, and the products have gained industry benchmark reputation for high stability and high customization.

坚持高品质高性价比路线,推广务实可靠的产品理念,推动液冷成为算力基础设施刚需。

We will adhere to a high-quality, cost-effective approach, promote a pragmatic and reliable product philosophy, and drive liquid cooling to become a necessity for computing infrastructure.

R&D TEAM

研发团队



何建水

产品研发工程师
Product Development Engineer

专注液冷产品研发设计, 热管理仿真设计实验专家。行业经验10年+

Specializing in liquid cooling product R&D and design, and an expert in thermal management simulation design and experimentation. 10+ years of industry experience.



母英健

产品研发工程师
Product Development Engineer

专注产品形态功能设计, 针对全案设计交付拥有大量经验。

We specialize in product form and function design and have extensive experience in full-service design and delivery.



刁鹏飞

产品电气工程师
Product Electrical Engineer

专业电气化工程师, 对项目电气化拥有绝对话语权。

Professional electrification engineers have absolute authority over the electrification of projects.



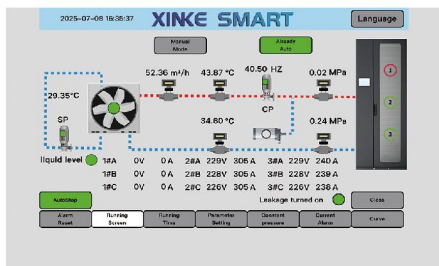
龚帅

产品软件工程师
Product Software Engineer

XINKE SPACE 系统负责人, 让万物实现互联。

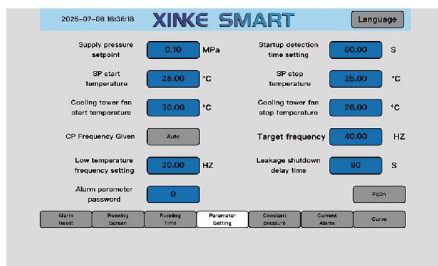
The head of the XINKE SPACE system, enabling the interconnection of everything.

XINKE SMART系统



XINKE SMART 是芯科自主研发的智能液冷平台,支持多端登录,可实现设备全球远程管理与数据监测,具备电力、气候、循环、网络系统的检测、自控及预警功能。平台界面简洁、适配性强,支持定制组态、多语种操作与远程系统更新,其预警保护机制可在极端环境下自动调控设备,避免服务器损坏。

XINKE SMART is a smart liquid cooling platform independently developed by XINKE. It supports multi-terminal login, enabling global remote management and data monitoring of equipment. It features detection, automatic control, and early warning functions for power, climate, circulation, and network systems. The platform interface is simple and highly adaptable, supporting customized configuration, multilingual operation, and remote system updates. Its early warning and protection mechanism can automatically adjust equipment in extreme environments to prevent server damage. This system can be applied to data centers, municipal heating, hydropower stations, wind and solar power generation, and other scenarios, realizing data communication, grid control, and waste heat recovery, effectively reducing operation and maintenance costs and minimizing manual intervention. It supports Modbus 485/TCP access, allowing customers to directly collect data to their own servers for management.



该系统可应用于数据中心、市政供暖、水电站、风光发电等场景，实现数据通讯、电网控制与余热回收，有效降低运维成本、减少人工干预。开放Modbus 485/tcp接入，客户能直接采集数据到自己服务器进行管理。

PRIVATE CLOUD

专属私有云 //

历经数年技术积淀与试验,芯科正式推出 XINKE SMART 3.0 系统。该系统可控参数完备、运行稳定,可实现毫秒级设备运行数据传输与 6 个月数据存储,支持设备异常实时告警;丰富的参数配置可适配各类应用场景,并支持私有云服务器部署。

After years of technological development and testing, Silicon Labs has officially launched the XINKE SMART 3.0 system. This system boasts comprehensive controllable parameters, stable operation, and millisecond-level data transmission and 6-month data storage capabilities. It also supports real-time alarms for device anomalies. Its rich parameter configurations adapt to various application scenarios and support private cloud server deployment.

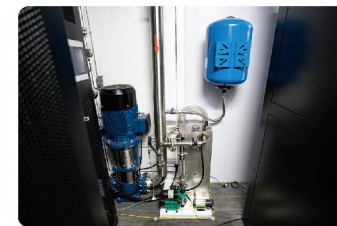
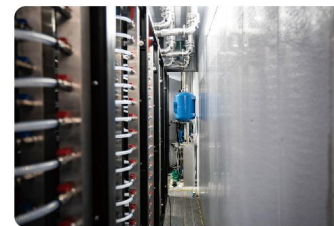
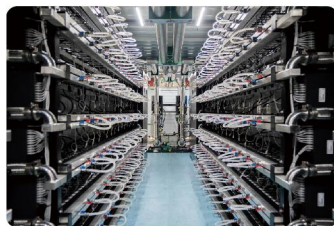
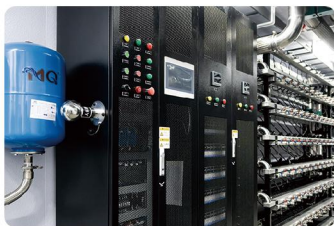
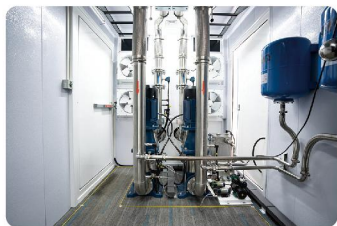
INDOOR PRODUCT SERIES

室内产品系列



OUTDOOR PRODUCT SERIES

室外产品系列



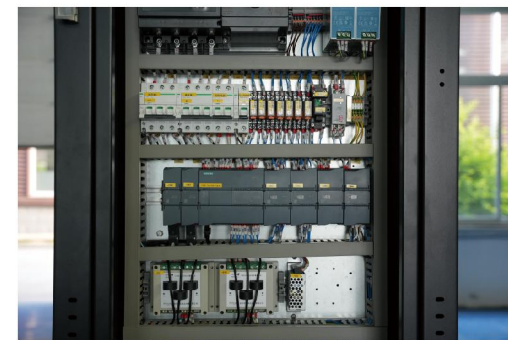
OUTDOOR PRODUCT SERIES

室外产品系列



DATA CENTER SOLUTION SHOWCASE

数据中心案例展示



DATA CENTER SOLUTION SHOWCASE

数据中心案例展示



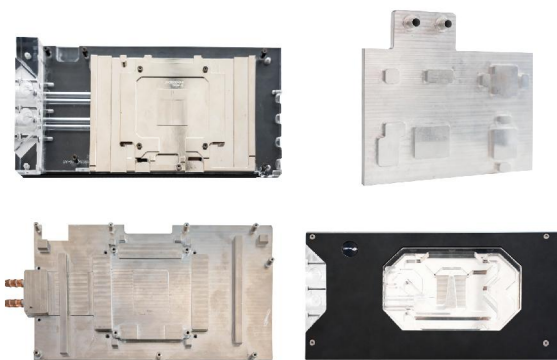
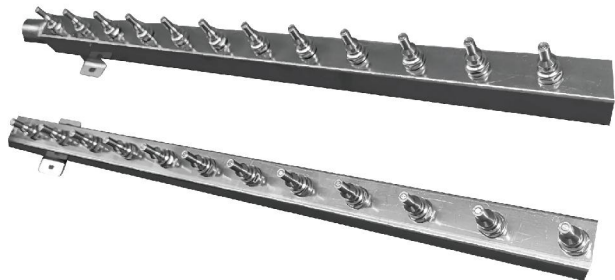
HEAT DISSIPATION METHOD

散热方式



ACCESSORIES AND OTHER PRODUCTS

配件及其他产品



BRAND SERVICE SYSTEM

品牌服务体系

售前服务

一对一服务, 针对客户需求提供专属定制方案、设计图纸、成本预算。

We offer one-on-one service, providing customized solutions, design drawings, and cost budgets tailored to each client's needs.

售中服务

专属跟单, 确保订单精准高效; 出厂前质检, 产品符合国标及行业标准。

Dedicated order tracking ensures accurate and efficient order processing; pre-shipment quality inspection ensures products meet national and industry standards.

售后服务

24小时在线咨询服务, 为您解决产品使用中遇到的问题, 确保使用顺畅。

We offer 24-hour online consultation to resolve any issues you encounter while using the product, ensuring smooth operation.

COMPREHENSIVE BRAND SUPPORT

全方位品牌支持

01

新设备订购支持免费上门,提供专业的设备安装、调试,确保产品正常使用。

New equipment orders come with free on-site service, providing professional equipment installation and commissioning to ensure normal product operation.

02

在按照我司设备使用说明正确使用的前提下,生产设备自收货日起质保两年。

Provided the equipment is used correctly in accordance with our equipment instruction manual, the production equipment is guaranteed for two years from the date of receipt.

03

国内售后支持48小时上门服务。

Domestic after-sales support includes 48-hour on-site service.

04

质保期内免费提供远程技术服务,含后台安装、调试、维护、定期监测。

Free remote technical support is provided during the warranty period, including backend installation, debugging, maintenance, and regular monitoring.

05

超过质保期由专业技术团队提供免费指导。

Free guidance will be provided by a professional technical team after the warranty period expires.

CORE PARTNERS
核心合作伙伴





埃塞俄比亚·480机位高密度液冷集装箱项目

项目采用480机位液冷集装箱, 总装机容量 21.12MW, 适配埃塞本地环境的定制化优化, 现场部署: 落地即接电、接水、接网, 单箱现场调试 ≤ 7 天



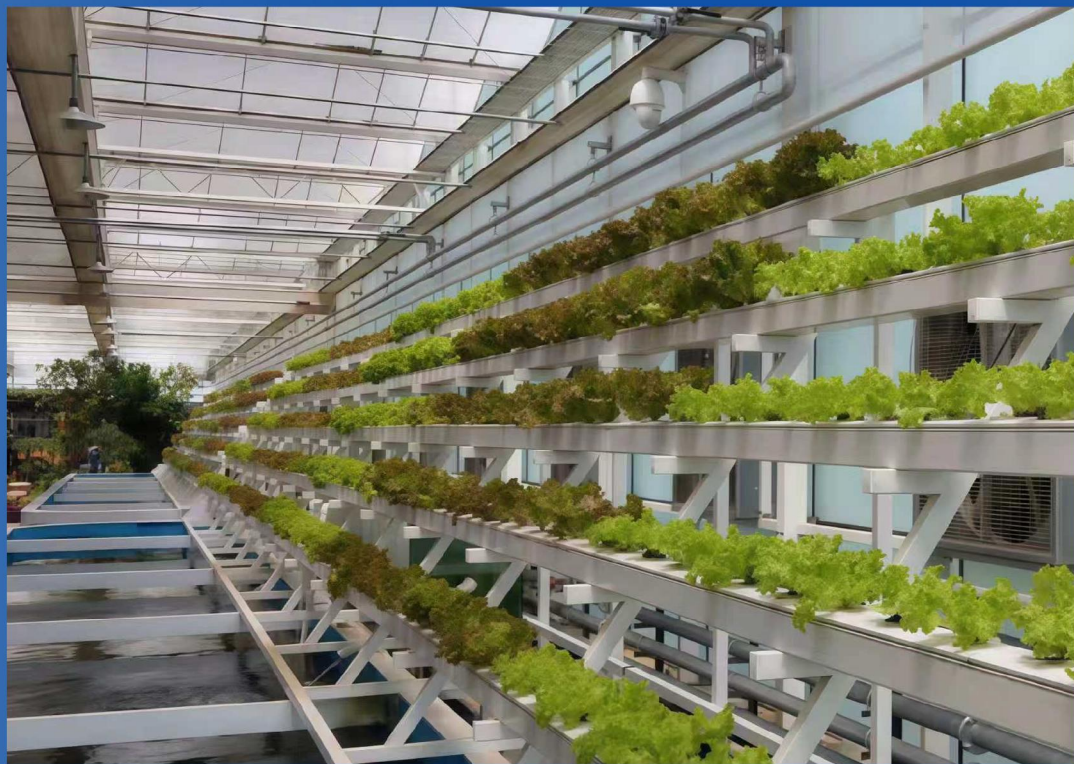
美国俄亥俄州·308机位模块化集装箱项目

项目采用40英尺高柜, IP55防护等级, 适配俄亥俄州四季分明(夏季高温、冬季严寒)、多风沙的气候特点。采用模块化预制模式, 100%工厂预装、布线、测试, 制造周期22天, 现场部署实现“落地即接电、接网、调试”, 单箱调试 ≤ 5 天。



乌兹别克斯坦·多机型模块化算力中心项目

项目规模为308机位蚂蚁集装箱、240机位神马集装箱、100机位阿瓦隆矿机集装箱组合形式。针对中亚高温干燥、冬季严寒、多风沙环境定制，IP54防护、耐候保温、防尘防冻。适配当地电网，宽电压、防浪涌、双路供电、智能配电。



某智慧农业基地

项目规模为IT负载0.8MW,部署于温室旁。
应用于冬季为30亩番茄温室提供地暖+气肥(CO_2),实现资源循环利用。
实际效果为番茄提前20天成熟,糖度提升1.5度,单季增收效益可观。

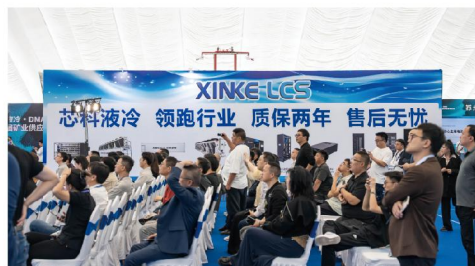
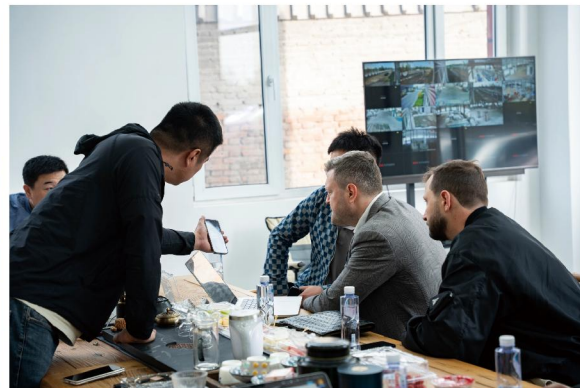
CORPORATE IMAGE

企业风貌



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XINKE LCS

THANK YOU FOR YOUR ATTENTION.

砥砺前行，笃行致远，感谢各位聆听