



Warehousing Network Solution

Empowering your industrial network for optimal performance and efficiency

GPSENKE NETWORK ICT

About GPSENKE

GPSENKE NETWORK ICT (referred to as GPSENKE) was founded in 2003 which is a comprehensive high-tech enterprise integrating technology research and development, production, sales, and service.

GPSENKE specializes in producing various communication equipment, including industrial wireless APs, industrial switches, 4G/5G routers, WiFi routers, edge computing gateways, and other devices. It provides comprehensive customized network solutions for a variety of different industrial sectors such as rail transit, coal mining, oil and petrochemicals, smart warehousing, factory automation, wind power new energy, electric power, smart cities, and military industry.



Oil and Petrochemical



Wind& Solar New Energy



Mining&Pipeline



Metallurgical Industry



Automation Factory



Warehousing AGV&AMR



Smart Transportation



Railways&Rail Train

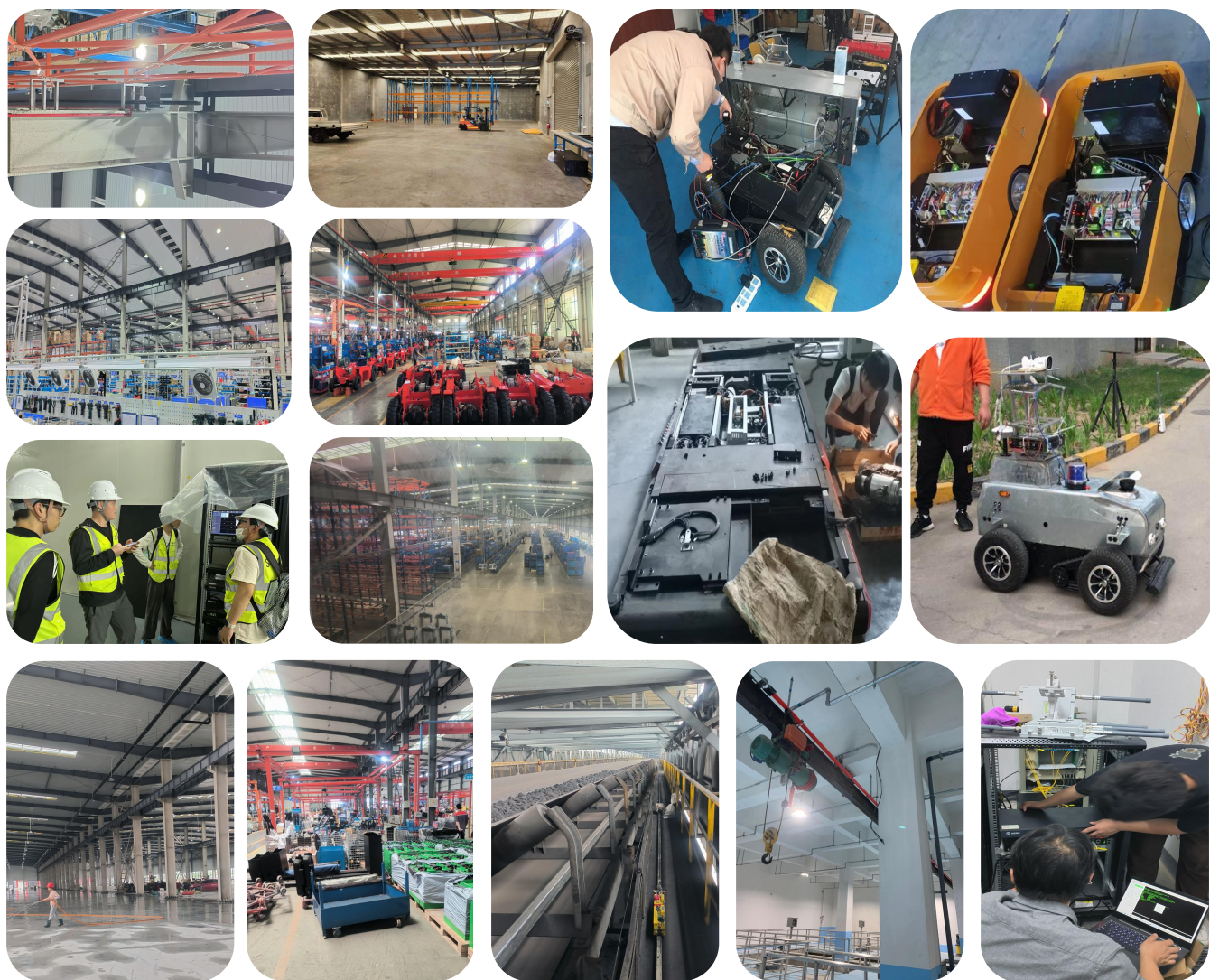


Smart City

Main Cooperator



On-Site Project



Pain Points



Traditional Warehousing



- Data Silos: Scattered data, poor information flow.
- Low Efficiency: Manual labor leads to errors and inefficiency.
- Inventory Issues: Hard to track inventory manually.



On-site Work



- Protocol Issues: Mixed AP/clients, poor tuning.
- Disconnections: Network drops, packet loss.
- Slow Roaming: Lengthy handovers.
- Placement Challenges: Hard to position APs, weak signal.
- Patchy Coverage: Affects automation stability.



Network Management



- Invisible Network: Slower repairs, higher costs.
- Device Surge: Data increase strains processing.
- Security Risks: Many devices, complex security.
- Tech Updates: Essential for improved network and safety.

Solution

In modern logistics, smart warehousing plays a crucial role by enhancing efficiency and accuracy through automation and intelligence. The smart warehousing wireless networking solution integrates wired, wireless, and GPSENKE Cloud systems to provide efficient, stable, and flexible network support, ensuring seamless collaboration between management systems, automated equipment, and surveillance systems.

Wired Connections:

As the foundational network structure, wired connections use industrial Ethernet switches to link key devices and servers in the warehouse, ensuring stable and reliable data transmission.

Wireless Coverage:

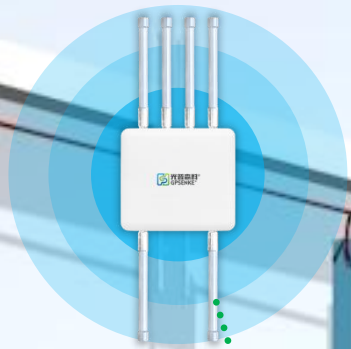
Industrial wireless APs cover every corner of the warehouse, facilitating seamless connectivity and instant switching for mobile robots (AGVs), drones (UAVs), and other mobile devices. This wireless network enhances operational flexibility and efficiency while supporting real-time data collection and access.

Real-time Monitoring and Data Analysis with GPSENKE Cloud System

The combination of wired and wireless networking allows operations personnel to monitor the status and performance of devices like switches, wireless APs, and 4G/5G gateways in real-time through the GPSENKE Cloud System. This aids in promptly identifying and resolving issues. Additionally, the system's advanced data analysis, machine learning, and AI algorithms optimize inventory management, demand forecasting, and process improvement. The GPSENKE Cloud System thus offers powerful data processing capabilities and extensive storage, boosting the reliability and availability of the smart warehousing network.

Automated Guided Forklift WiFi Solution

Industrial Access Point



Industrial Access Point



Wireless Client



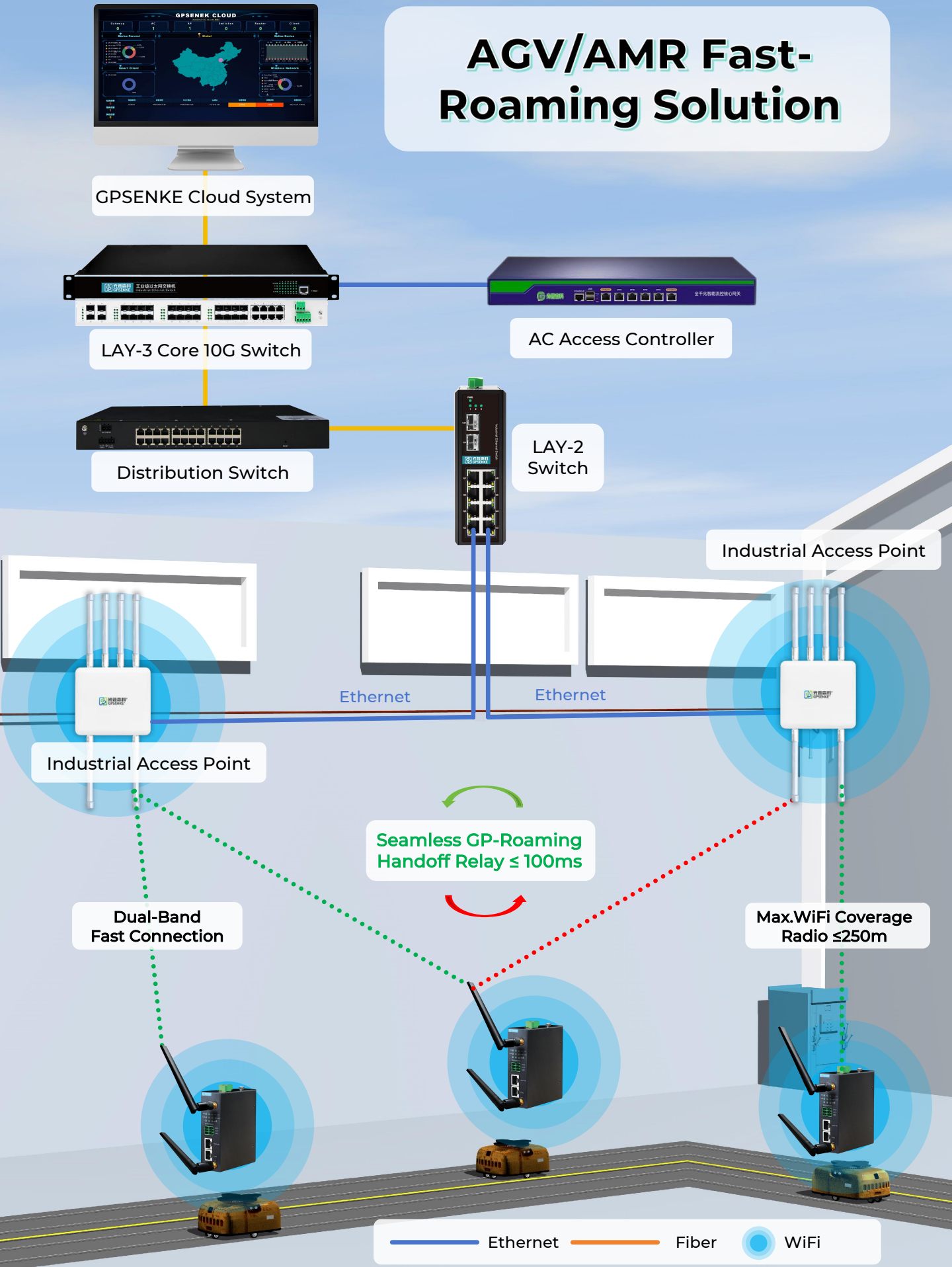
Ethernet Switch

Ethernet

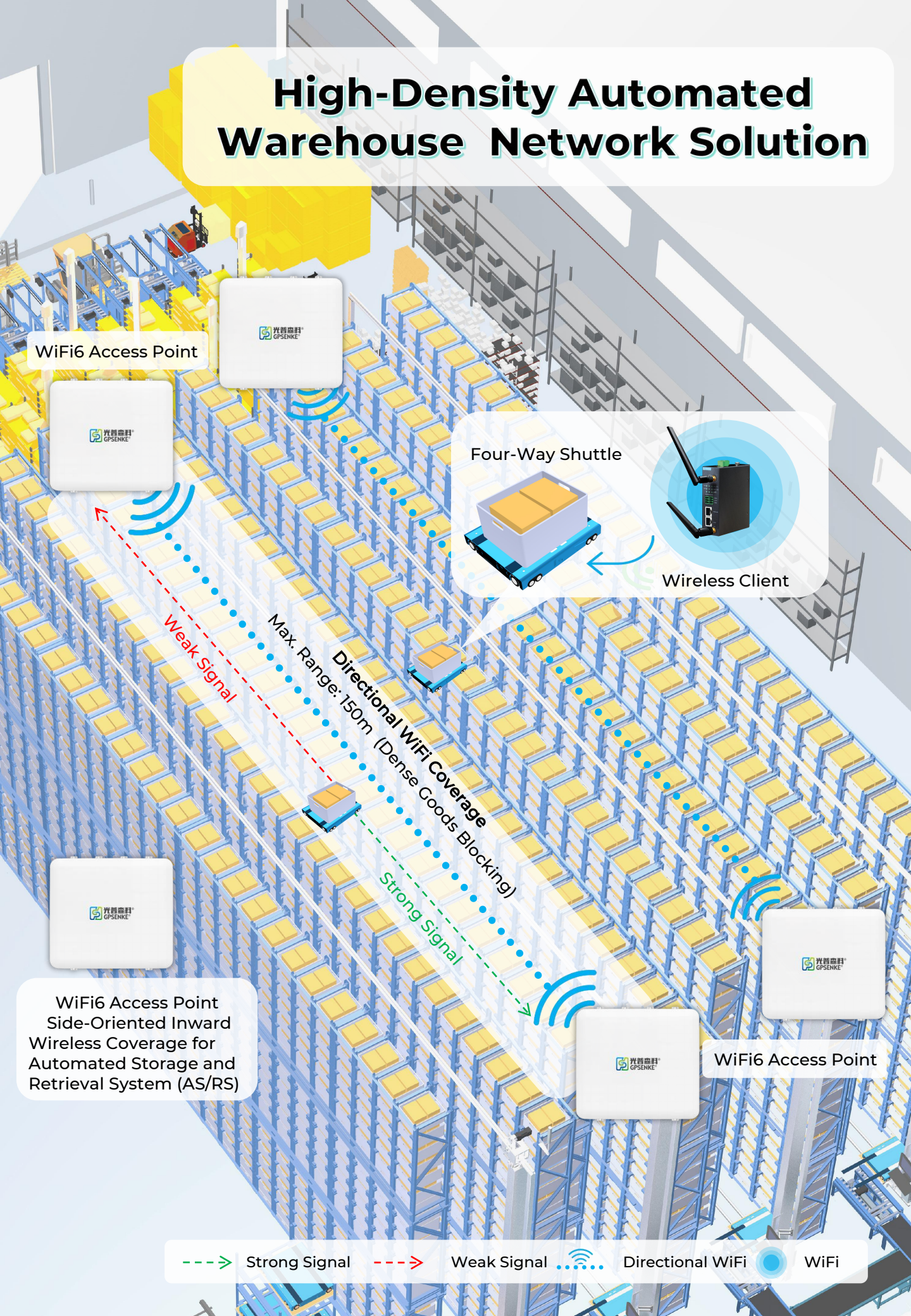
- NUC
- AGV Control
- Control Screen
- Camera
- Other Device

Automated Guided Forklift

AGV/AMR Fast-Roaming Solution



High-Density Automated Warehouse Network Solution



GPSENKE Main Device

Industrial Wireless Access Point



320M AP



1200M AP



1800M AP



3000M AP

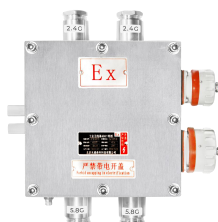


5400M AP

Industrial Sepcifiy Wireless



Mining



Oil&Gas



Warehousing

Wireless Bridge



1~10Km



20/30/50Km

Industrial 4G5G



4G Router



5G Router

Power Panel



Power Supply

WiFi Modular



WiFi Modular Device

Industrial Wired Product (SW/Serial Server/PoE)



L2 SW



L3/M12 SW



POE SW



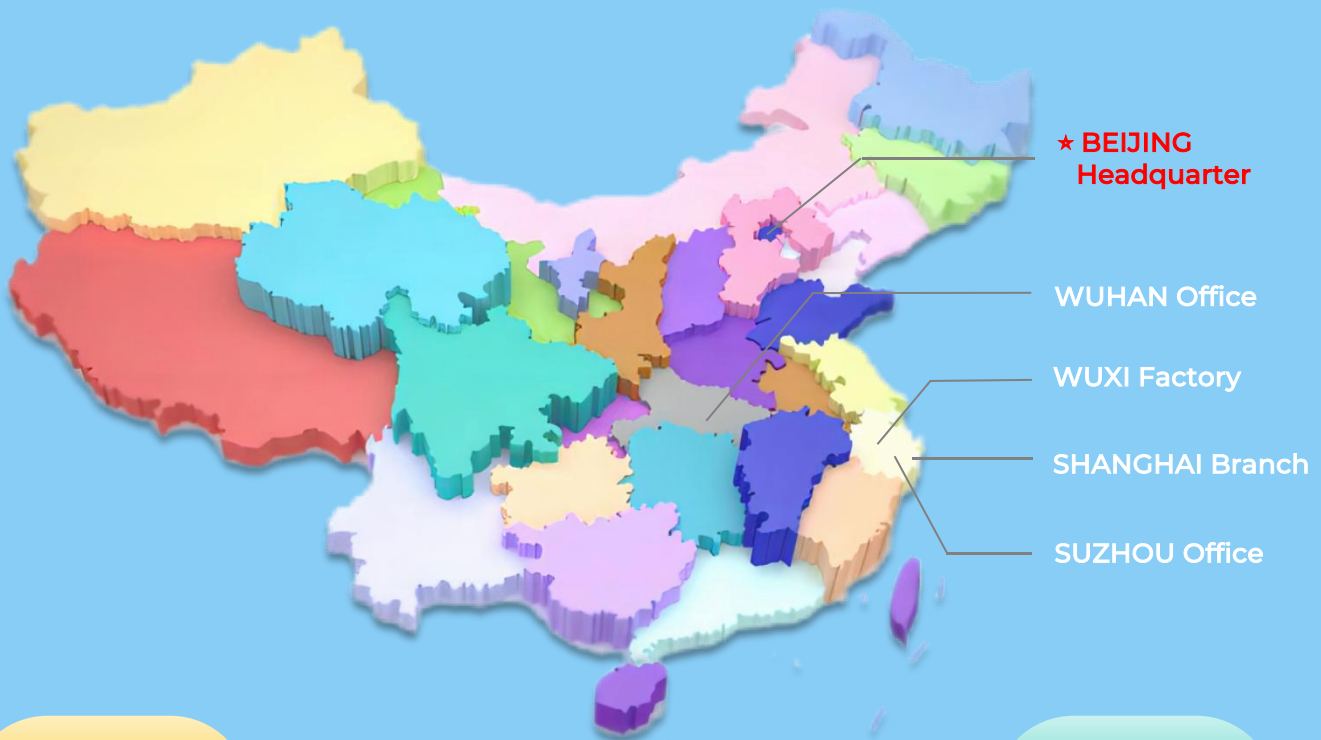
Serial Server



Converter

GPSENKE NETWORK ICT

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Australia Office



United States Office



Russia Office



Vietnam Office



Azerbaijan Office



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