AISWare AgileNet

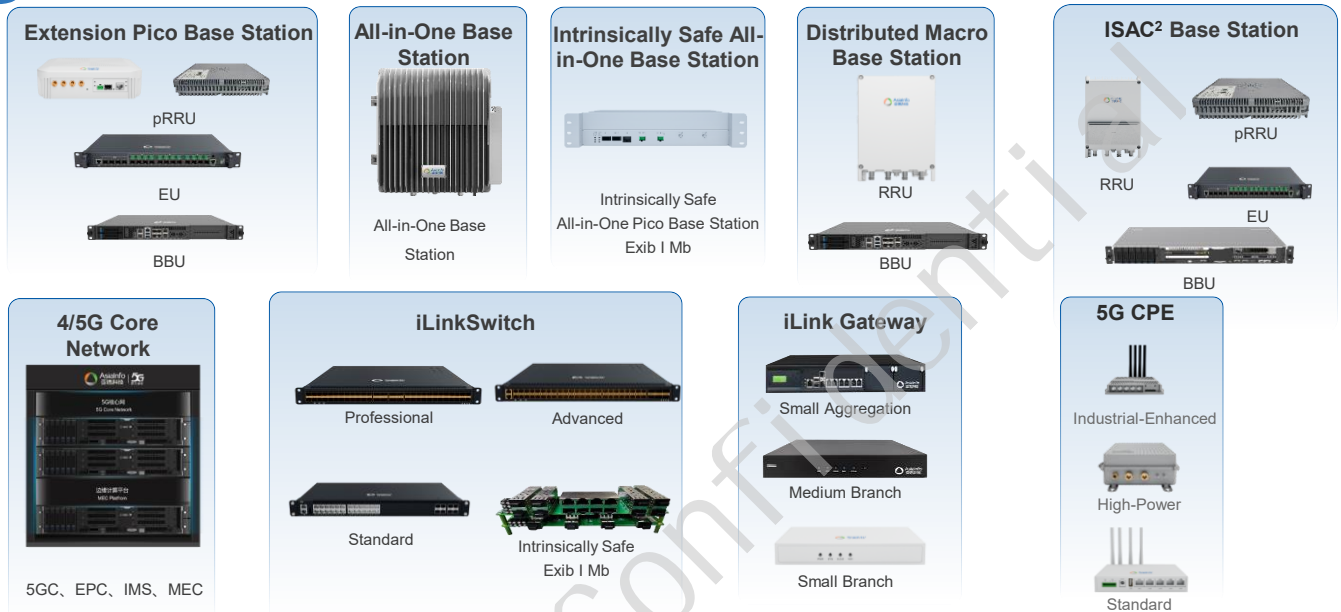AsiaInfo's Private 5G Network Product Portfolio

Overview

AISWare AgileNet is an All-in-One product portfolio including Base Station, Core Network, Intelligent Link Product (iLink), 5G CPE, and P5G Operations Platform, with which AsiaInfo provides multi-scenario solutions for verticals along with end-to-end services of P5G planning, design, deployment, operations, and maintenance. It also supports Telco public network deployments for 5G indoor and remote coverage scenarios, etc.

Product Portfolio

Extension Pico Base Station
- pRRU
- EU
- BBU

All-in-One Base Station
- All-in-One Base Station

Intrinsically Safe All-in-One Base Station
- Intrinsically Safe All-in-One Pico Base Station Exib I Mb

Distributed Macro Base Station
- RRU
- BBU

ISAC² Base Station
- RRU
- pRRU
- EU
- BBU

4/5G Core Network
- 5GC、EPC、IMS、MEC

iLinkSwitch
- Professional
- Advanced
- Standard
- Intrinsically Safe Exib I Mb

iLink Gateway
- Small Aggregation
- Medium Branch
- Small Branch

5G CPE
- Industrial-Enhanced
- High-Power
- Standard

Extension Pico Base Station (NR Single-Mode)	AISWare AgileNet-RAN S26/S33/S35/S49	Frequency: TDD 2.6G/3.3G/3.5G/4.9GHz Power: 4 Cellsx4T4R, 250mW, 4 Cellsx2T2R, 500mW Capacity: 400 Activated RRC Users in a Single Cell
Extension Pico Base Station (4/5G Dual-Mode)	AISWare AgileNet-RAN D26	Frequency: NR 2.6GHz; FDD LTE 1.8GHz Power: NR 4 Cellsx2T2R, 500mW; FDD LTE 2x125mW Capacity: NR 400 Activated RRC Users in a Single Cell
All-in-One Base Station	AISWare AgileNet-RAN A07/A21/BA7	Frequency: FDD 700MHz/2.1GHz Power: 1 Cellx2T2R, 40W (Intrinsically Safe Mode 250mW) Capacity: 100 Activated RRC Users in a Single Cell (Intrinsically Safe Model 64 Activated RRC Users)
Distributed Macro Base Station	AISWare AgileNet-RAN M35/M49	Frequency: TDD 3.5G/4.9GHz Power: 2 Cellsx4T4R, 40W (M35)/20W (M49) Capacity: 400 Activated RRC Users in a Single Cell
ISAC² Base Station	AISWare AgileNet-RAN ISAC²	AI Computing: Single BBU supports 48GB GPU memory, 240 TOPS INT8, 120 TFLOPS FP16 Sensing: 6m indoor, 240-500m outdoor range, 0.08m/s Doppler precision
4/5G Core Network	AISWare AgileNet-CN	Basic: 1000 users; Throughput 5Gbps, Supports 16 base stations Standard: 5000 users; Throughput 10Gbps, Supports 128 base stations Advanced: 10000 users; Throughput 20Gbps, Supports 512 base stations Premium: 50000 users; Throughput 50Gbps, Supports 1024 base stations
Intelligent Link Switch	AISWare iLinkS AISWare iLinkS-BA	Standard: Switching Capacity 208Gbps, Packet Forwarding Rate 155Mpps Advanced: Switching Capacity 1.44Tbps; Packet Forwarding Rate 1071Mpps Professional: Switching Capacity 4.0Tbps; Packet Forwarding Rate 2976Mpps Intrinsically Safe: Switching Capacity 128Gbps; Packet Forwarding Rate 83.32Mpps
Intelligent Link Gateway	AISWare iLinkG	Small Branch: Bandwidth Limit 100Mbps Medium Branch: Bandwidth Limit 500Mbps Small Aggregation: Bandwidth Limit 1Gbps
5G CPE	AISWare AgileNet-5G CPE	Standard: Wired, Wi-Fi, 4/5G; Supports multi-DNN and IPSec High-Power: Wired, Wi-Fi, 4/5G, Supports high power and frequency locking Industrial-Enhanced: Wired, Wi-Fi, 4/5G; Supports wide temperature range, dustproof, waterproof, IoT interfaces

Core Functions

- Core Network: Implements 4/5G network control and user plane data processing and forwarding, including 5GC, EPC, IMS, and MEC functions.
- Base Station: Delivers 4/5G wireless coverage for communication between private networks and 5G terminals, supporting Extension Pico Base Station, All-in-One Base Stations, and Distributed Macro Base Stations.
- Intelligent Link Product (iLink): Enables intelligent intra- and inter-network interconnection, reducing configuration and O&M complexity, including smart switches and gateways.
- 5G CPE: Converts 5G signals to Wi-Fi/wired signals for local devices (e.g., cameras, vehicles, industrial PLCs) to access the P5G network.
- P5G Operations Platform: Facilitates the operations, maintenance, and capability openness of the P5G network to to simplify enterprise adoption.

Unique Advantages

Advanced and Open Technology

- Wilder Coverage, Higher Rate, Lower Latency
- More flexible spectrum utilization
- Enhanced mobility and security
- Open architecture supporting ORAN
- Intelligence-driven with AI RAN support

Full-Stack Product Portfolio

- Integrated 4G/5G Core Network (Hardware and Software)
- Multi-mode integrated 4G/5G base stations
- Simplified multi-vendor integration
- Reduced complexity in network deployment, testing, and maintenance

Industry-Specific Capabilities

- Radiation Resistance, Extreme Temperature Tolerance, Salt Spray Resistance, Intrinsically Safe, Explosion Resistance
- 5G LAN, TSN, 5G Relay, Dual Fed and Selective Receiving

Cost Efficiency and Fully Controllable

- Total TCO reduced by 36% compared to industry standards
- Full controllable over core chips, components, boards, and operating systems
- Fully certified with MIIT, CE, CCC, OTIC, and other relevant industry qualifications

Innovating Private Network Evolution

- World's first integrated AI communication and computing base station
- ISAC base station empowering the low-altitude economy
- Next-gen Agentic architecture RAN & Core Network

Application Scenarios

Nuclear Power
- Personnel and Equipment Management
- Nuclear Power Safety Monitoring

Wind Power
- Wind Power O&M Management
- Submarine Cable Backup

Photovoltaic
- Remote Monitoring and Data Acquisition
- Energy Management and Optimization

Mining
- Autonomous Mining Trucks
- Underground Tunnel Coverage

Manufacturing
- AGV Autonomous Driving
- Industrial Visual Inspection

Ports
- Remote Crane Operation
- Unmanned Truck Dispatch

Hospitals
- Mobile Medical Rounds
- Vital Signs Monitoring

Education
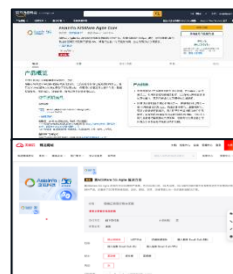- Campus Security Monitoring
- Drone Network Control

Certificates & Awards

MIIT Network Access License

CCC Certification
EU CE Certification

Listed on State Cloud
Listed on AWS Marketplace

2025 TMF Excellence Award "Excellence in monetizing the network"

2025 Omdia Market Radar "E2E Private 5G Networks Vendors-2025"

2025 GTI Awards "Best Market Expansion & Commercial Value"

2024 Network X Award "Best Service or Solution for Enterprises"

2024 The First Prize in the 7th "Bloom Cup" 5G Application Competition

2023 The Second Prize of Technological Advancement from CCF

Use Cases

Nuclear Power Plant | Wind Farm | Telcos