

SUNWAVE

Keeping You Connected

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SUNWAVE COMMUNICATIONS CO., LTD

A tall, modern glass skyscraper with the Sunwave logo at the top. The building is surrounded by greenery and a street with a crosswalk in the foreground.

*Leading Global Wireless
Communication Technology Provider
Since 1993 >>>*

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Keeping You Connected >>>



Sunwave Communications Co., Ltd, a leading global wireless communication technology provider, was founded in 1993. The company has over 1000 employees, and its annual revenue in 2024 exceeded 1.54 billion US dollars.

Specializing in comprehensive wireless network infrastructure solutions, Sunwave delivers top-notch services in wireless coverage, network management, security, and satellite communications to clients worldwide.


1.54
Billion USD
Annual Revenue


5 +
R & D Center

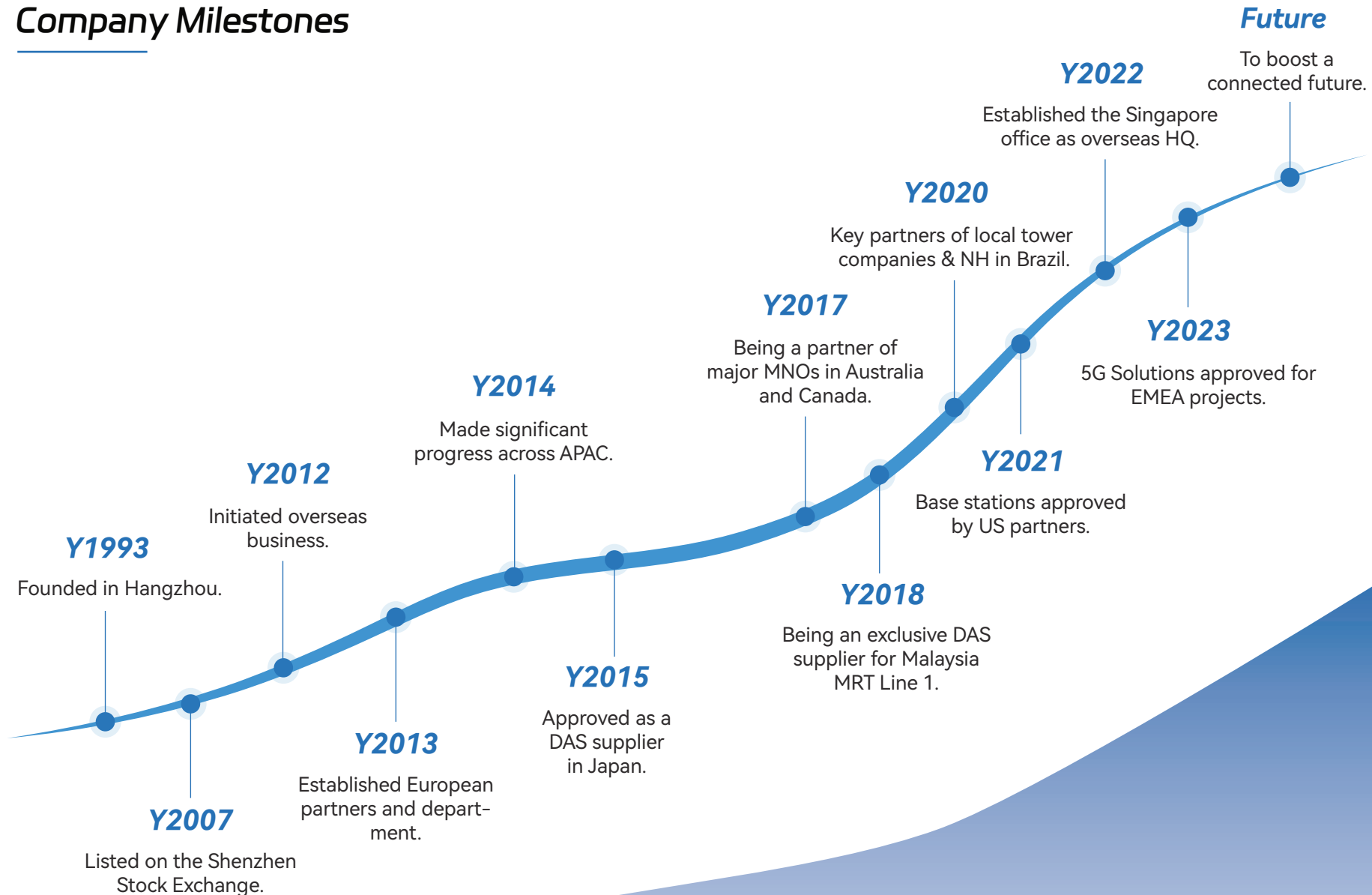

6
Global Top 10
Telecom Operator


30+
Global Branch


10%+
Revenue for
R&D Investment

* 10%+ based on wireless communication revenue.

Company Milestones





Sunwave provides customized wireless coverage solutions for worldwide mobile network operators, neutral hosts, and industry customers. Our solutions are widely utilized in office buildings, hotels, shopping malls, stadiums, airports, and train stations, as well as other heavily trafficked areas.

Wherever you are, Sunwave's Wireless Coverage solutions will always keep you connected.

One System Supports

- 2G/3G/4G/5G Coexistence
- Private/Public Network
- Single/Multiple MNOs
- RF/Open RAN Access

Reference Cases



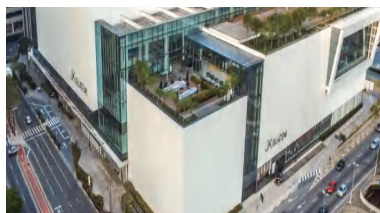
• Hotel, UK



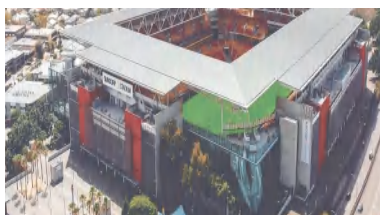
• Office Building, FR



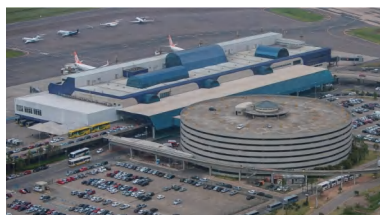
• MRT, MY



• Shopping Mall, BR



• Stadium, AU



• Airport, BR

CrossFire Product Family

Active DAS



A2/A3



E3-O/E3-E



N3 Plus 12*17/23/27dBm



N3-OD 8*24dBm



N3-O/N3-E 8*25dBm



N3-R 8*16dBm



M2RU 4*37dBm



M3-L 7*33/37dBm



M3-H 2*40dBm



H2RU 2*43dBm



X3RU 4*46dBm

Public Safety



MP-PS



AU-AIR



AU-PS

Management System



• NMS

O-RAN Products



O-A3 MORAN



O-N3, 8*25dBm



O-M2, 4*37dBm



ORU-H, 4*46dBm



ORU-L, 2*48dBm

RF Products



C3POI



Splitter



Coupler



Load



Antenna



RF Cable



RF-Connector



Combiner

Wireless Coverage Solutions



N3-OD

Outdoor



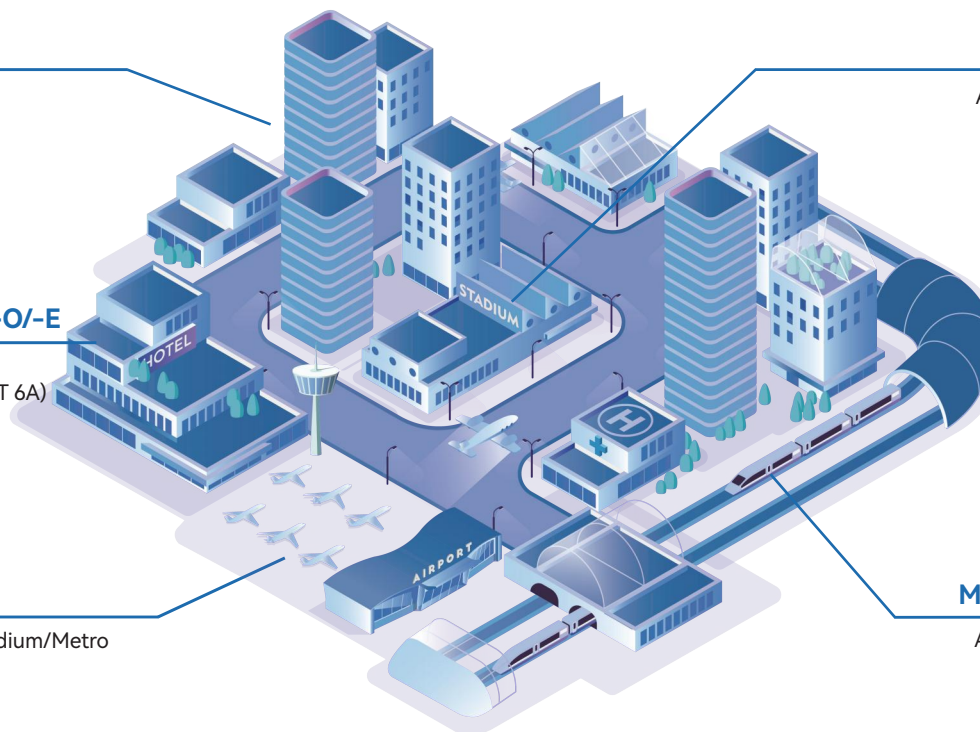
N3 Plus/-O/-E

In-Building
(Fiber or CAT 6A)



X3RU

Airport/Stadium/Metro



H2RU

Airport/Stadium/Metro



MP-PS

Public Safety



M2RU/M3-L/M3-H

Airport/Stadium/Metro





Sunwave Communications offers flexible 4G LTE and 5G NR solutions for rural, suburban, and urban areas, catering to residential, commercial, and enterprise users. With over 30 years of R&D expertise, our team provides customized OEM service.

Open RAN (O-RAN) plays a crucial role in today's telecom industry, and Sunwave excels in providing advanced O-RAN architecture for a high-performance, reliable 4G/5G radio access network. We also deliver a variety of 4G/5G CPE terminals for applications like FWA and industrial use-cases, aiming to enhance network experience, reduce OPEX, and drive digital transformation.

Features

- **Multi-Scenarios**

Rural broadband / industrial campus / education / hospitality / healthcare / utility

- **Diversified Design**

Integrated / distributed / portable eNB & gNB, enterprise virtual cloud core network

- **Various Backhaul Solutions**

xPON/IPRAN, plug & play, flexible networking

- **E2E Solution**

Satellite / Core / CPE / Terminal / App platform / Intelligent NMS

Application Scenarios



- Smart Factory



- Smart Agriculture



- Smart Transportation



- Smart Education

Wireless Network Product Family

Sunwave could provide a high-performance, reliable, and cost-effective 4G/5G radio access network and CPE for various scenarios that allow an always-on and reliable network. With the intelligent solutions, customers could easily configure the settings and improve their competitiveness to achieve smart management.

Features



Superb Performance

- Low latency
- High reliability
- Cost-effective
- Ultra broadband access



Intelligent O&M

- Visual analysis
- Zero-touch provisioning
- Real time management
- Multiple access



Diverse Scenarios

- Indoor & outdoor
- Flexible capacity
- Various applications
- Customized bands

CPE Products



Outdoor
CPX80P



Indoor
CPX60P



Industrial Outdoor
CPX80I



Industrial Router
MDN80I

Core & NMS



- EPC/5GC
- NMS

5G RAN Products

NEXT
GEN



Integrated gNodeB
nCELL-M437X
4*37dBm



Integrated gNodeB
nCELL-M4460
4*46dBm



Integrated Femtocell
nCELL-F2240
2*24dBm

NEW



Distributed gNodeB
nCELL-T5000/T5100
Baseband Unit



Distributed gNodeB
nCELL-RU4370
4*37dBm



Distributed gNodeB
nCELL-RU4460
4*46dBm

NEW



Distributed gNodeB
nCELL-RU8250
8*25dBm

4G RAN Products



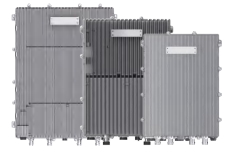
Femtocell
sCELL-RF/EF
2*17/2*21dBm



Integrated eNodeB
sCELL-H2000
2*43/2*46dBm



Distributed eNodeB
sCELL-T4000
Baseband Unit

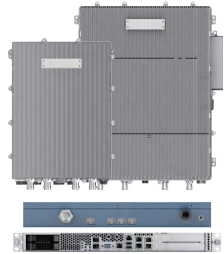


Distributed eNodeB
Remote Radios
2*23/2*46/4*37/4*46dBm

Wireless Network Solutions

Sunwave's solutions accelerate the digital transformation of the enterprise and feature high bandwidth, high reliability, and flexible application options. These solutions support smart security management, allowing customers to improve automation and operational efficiency.

Sunwave provides all-in-one 5G end-to-end solutions based on the distributed and integrated architecture for different scenarios to meet the unique 5G needs of our global customers, such as smart medical, smart drive, smart factory, etc.



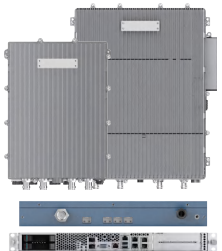
FWA

Integrated/Distributed
Middle/High Power Radios
2*43/2*46/4*37/4*46dBm



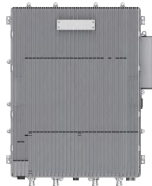
Indoor Solutions

AU/EU+Pico,
Femto, O-RAN+DAS
8*25dBm/2*24dBm



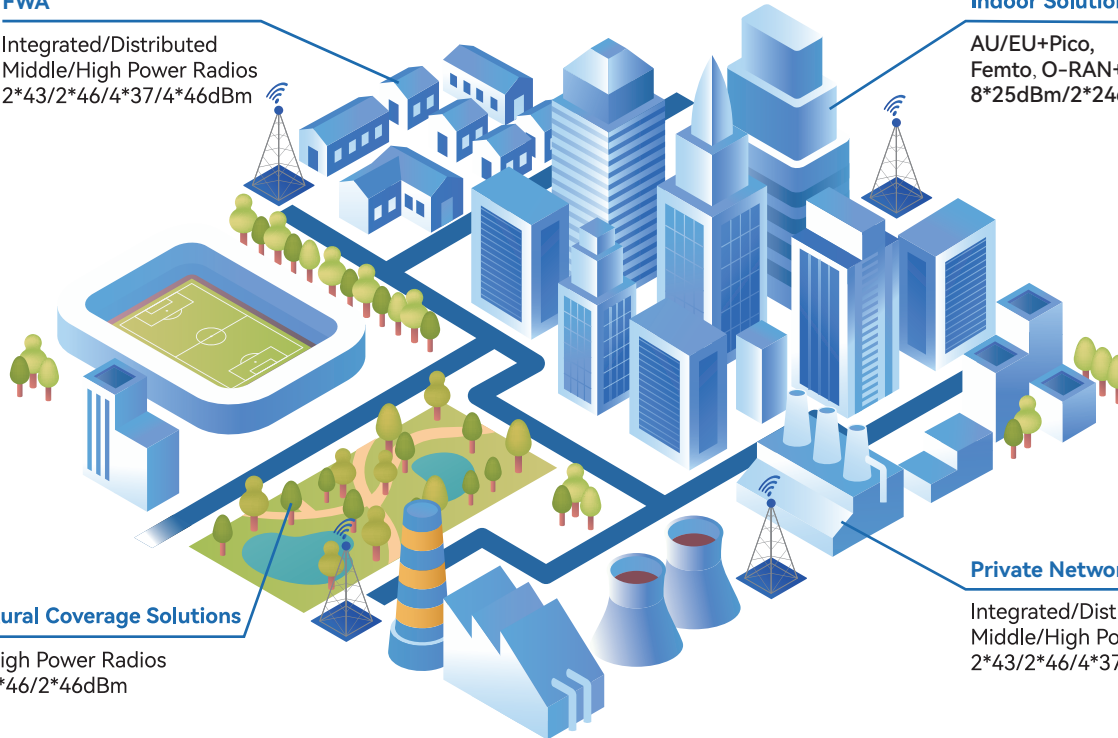
Private Network

Integrated/Distributed
Middle/High Power Radios
2*43/2*46/4*37/4*46dBm



Rural Coverage Solutions

High Power Radios
4*46/2*46dBm



Global Footprint





Sunwave's wireless security solutions shine in situations requiring robust security, such as public safety activities, secure meetings, and facilities, special events, and incidents. Our state-of-the-art security products include managed services and comprehensive blocking capabilities, covering everything from desktops to large complexes and venues.

Features

- **Multi-Scenarios**

Prison / public safety / office / confidential meeting

- **Diversified Design**

Desktop interrupter / distributed antenna system / portability

- **Exclusive Services and Solutions**

Customized service / innovative technology / monitoring platform

CUBE 2.0



Ultra-low Power Intelligent Signal Unit

The intelligent desktop jammer is professionally designed for public safety, prison, justice, confidential meetings, law enforcement department scenarios, covering all bands of worldwide operators. It is a digital architecture, bringing no interference on the uplink, allowing for flexible deployment and plug-and-play functionality.



Multiple Band



No Interference



Lower Radiation

Managed Access System (MAS)

The Scutarii MAS Distributed Intelligent Signal Blocking System supports multiple network operators' bands with various power configurations to address blocking mobile cellular signals at any venue. It utilizes innovative technology for signaling downlink blocking.

Intelligent Blocking Features

- Innovation in signaling level control, distributed multi-point launching.
- Low power, low radiation, high blocking efficiency.
- Power adjustable, accurate perimeter control.
- Full standard, full region, no blind spots.
- Remote maintenance platform.
- Self-adapting, smooth upgrade.

Managed Access System (MAS) Series



S2 - Signaling Unit



A2 - Access Unit



CU - Catching Unit

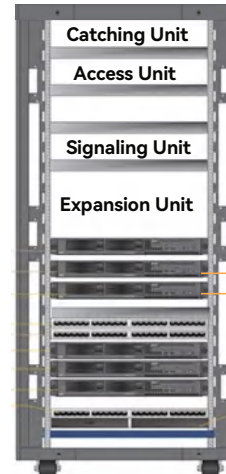


E2 - Expansion Unit

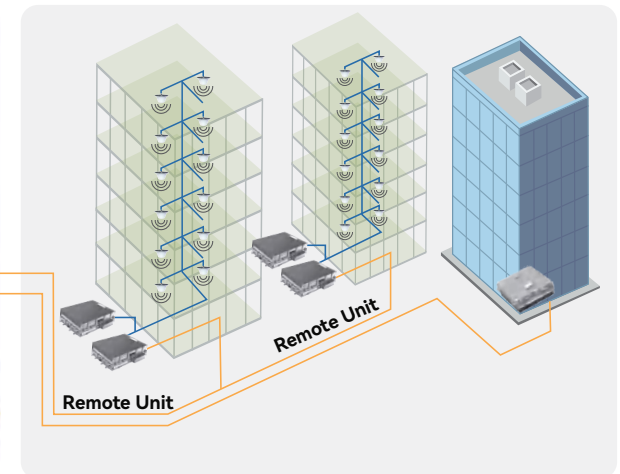


X2 - Remote Unit

System Architecture



Indoor Equipment



Control Area Signal Coverage System



MARINESAT, a leading satellite communication service provider, offers innovative solutions to address network coverage challenges across various scenarios, including maritime communication, mountainous areas, and remote regions.

By providing broadband internet access service to over 3500 terminals, MARINESAT has established itself as a pioneer in the international satellite communication industry.

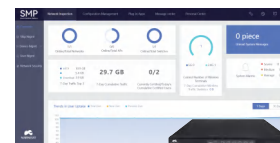
Smart Maritime IT Solution

With extensive experience in ship satellite communication networks, MARINESAT offers customized IT solutions for ships and crew.

Features

- Comprehensive management of ship-side networks.
- Customized system architecture for vessels.
- Customized IT management platform for fleets and crew.
- Professional ship, satellite, and IT service team.
- Cost-effective global product and service supply chain.

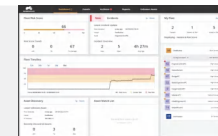
Smart Maritime Platform



Ship-side asset management, network policy configuration, daily network management, remote management and operational analysis.

Cyber Security Systems

Ship-side device management, network and device vulnerability scanning, risk management, risk incident process, and ship-side network compliance analysis.

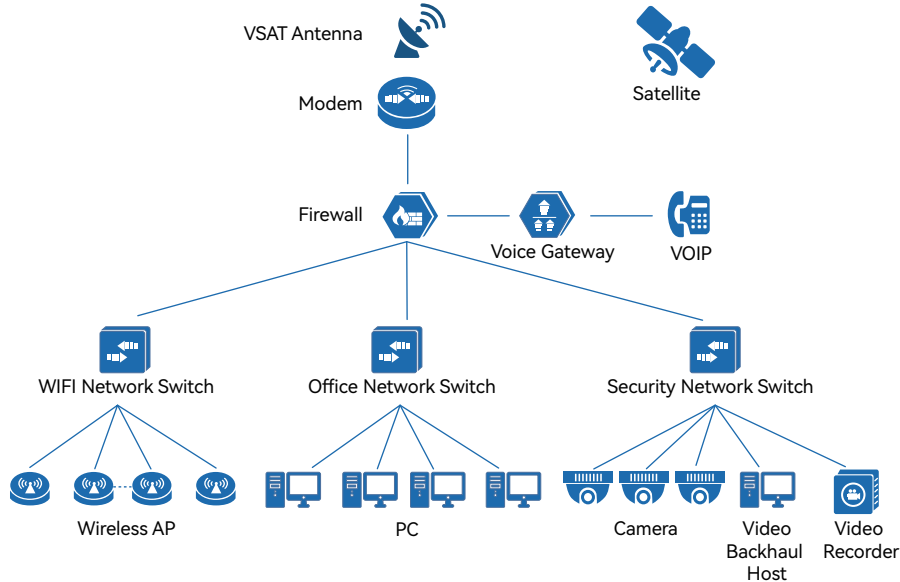


IT O&M Service

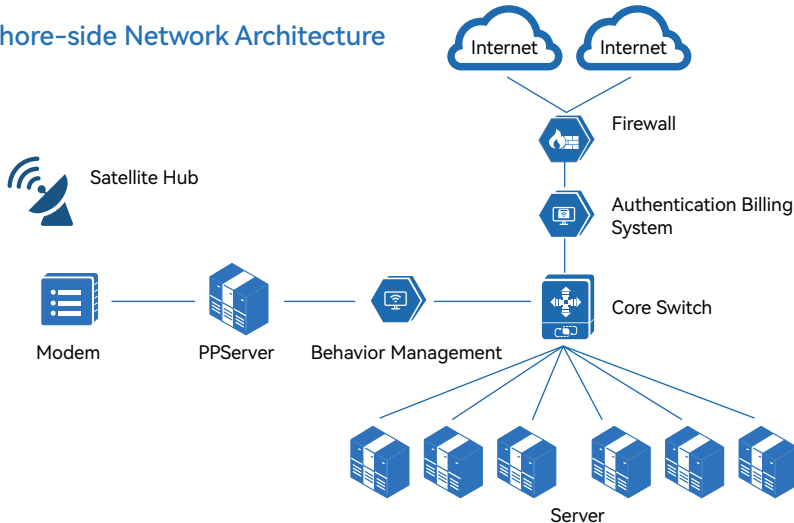
Operation & maintenance of onboard network, network equipment, software, etc.

System Architecture

Ship-side Network Architecture



Shore-side Network Architecture



SAILINK Maritime

SAILINK Maritime is a robust broadband internet service designed for boats, ships, yachts, and rigs. Enabled by a vast constellation of Low Earth Orbit (LEO) satellites, it delivers high-speed, low-latency internet at sea. With speeds reaching up to 220Mbps / 40Mbps (MLR), it is capable of supporting video calls, streaming, and other high data rate applications.



Hybrid Communication System



Intelligent Account Management



Intelligent LAN Management



Wifi Network Coverage

Features

- Seamless global data connectivity.
- Convenient smart account switching.
- 360° communication management.
- 24/7 exclusive IT service.