Micronet Union

MICRONET UNION PRODUCT PORTFOLIO

Wi-Fi | AON | MBB | SECURITY | SWITCH | INNOVATION

Intelligent Secure Connection Device

About Micronet

Micronet Union is a global provider of network communication products and one-stop solutions, integrating product design, R&D, production, marketing and service. It focuses on Wi-Fi technology, and has formed different products and solutions. Presently, it boasts six product lines: Wi-Fi, AON, MBB, security, switches, and innovation. With flexible business models, including JDM, ODM, OEM, it has served hundreds of global B-end customers (operators and brand customers), reaching all provinces in the country. Its overseas business spans 6 regions and 35 countries.

Values | Keep Running

Mission | Industry Serves the Country Industry Prospers

Vision | Global Intelligent Secure Connection Device Provider

Wi-Fi Intelligent Terminal Industrial Park

Sichuan's First 5G Smart Factory

Yield 99.5%

Scales	
Construction area/㎡	**197,000**
Daily Capacity/devices	**300,000**
Annual Output Value/USD	**1.4 billion**

China's First 5G-A Smart Factory in 3C Industry

48 Fully Automated Production Lines

Leading time of 3-7 Days Domestically, 30-40 Days Overseas

Business Models

35
Countries & Regions

Map labels: Canada, United States, Mexico, Columbia, Peru, Brazil, Argentina, Britain, Germany, France, Spain, Morocco, Italy, Switzerland, Sweden, Finland, Poland, Slovakia, Ukraine, Turkey, Iraq, Saudi Arabia, U.A.E, Nigeria, South Africa, India, China, Thailand, Vietnam, Philippines, Malaysia, Indonesia, Japan, South Korea, Australia
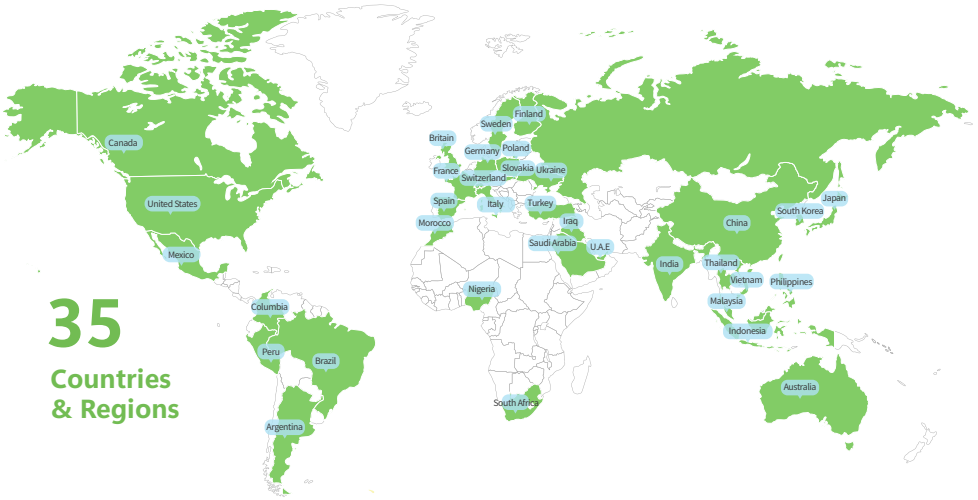
Flexible cooperation mode
Meet all kinds of service requirements

For Operators (JDM)

One-stop solutions and customized services.

For Brand Owners (ODM/OEM)

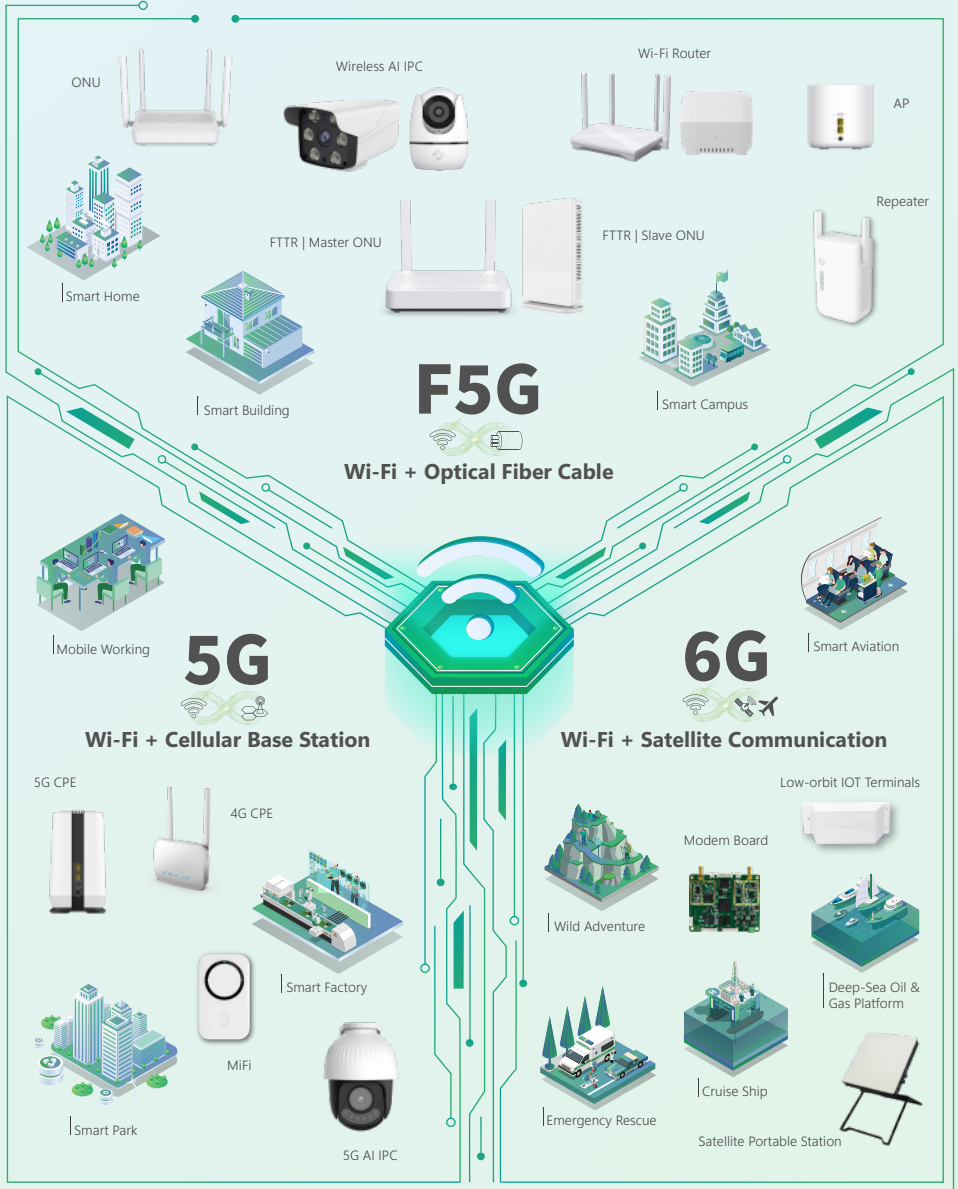High-efficiency, high-quality and low-cost manufacturing services.

For Agents (ODM)

Customized one-stop solutions.

Product Layout

Wi-Fi tech development and integration, to form diverse products and solutions for various scenarios.

ONU

Wireless AI IPC

Wi-Fi Router

AP

Repeater

Smart Home

FTTR | Master ONU

FTTR | Slave ONU

F5G

Smart Building

Smart Campus

Wi-Fi + Optical Fiber Cable

Mobile Working

5G

Smart Aviation

6G

Wi-Fi + Cellular Base Station

Wi-Fi + Satellite Communication

5G CPE

4G CPE

Low-orbit IOT Terminals

Modem Board

Wild Adventure

Smart Factory

Deep-Sea Oil & Gas Platform

Smart Park

MiFi

Cruise Ship

Emergency Rescue

5G AI IPC

Satellite Portable Station

Contents

Wi-Fi Products

Application Scenarios: smart home, small enterprises, shopping malls, campus

Router

Wi-Fi 7 | BE6500

- 1×2.5G WAN port, 3×GE LAN ports
- Supports EasyMesh wireless expansion
- Provides 1 2.5G Ethernet port and 3 Gigabit Ethernet ports, suitable for IPTV access
- Supports a maximum bandwidth of 320MHz and 4096-QAM modulation

Wi-Fi 7 | BE3600

- 1×2.5G WAN port, 3×GE LAN ports
- Supports EasyMesh wireless expansion
- Introduces 4096-QAM, offering a 20% speed increase compared to 1024-QAM of Wi-Fi 6
- Multi-RU, multi-link operation

Wi-Fi 6 | AX3000

- Equipped with a dual-core 1GHz high-performance processor, coupled with 256MB DDR memory and 128MB Flash memory
- Provides 4 WAN/LAN full gigabit Ethernet ports, and supports IPTV access
- Supports OFDMA, MU-MIMO, TWT, and BSS Coloring techs
- Supports EasyMesh wireless expansion tech, achieving extensive wireless signal coverage

Wi-Fi 6 | AX1800

- 1800Mbps Speed: With 1200Mbps on the 5GHz band and 574Mbps on the 2.4GHz band
- 4×External/Internal Omnidirectional Antennas: Improves coverage and multi-device performance
- Supports OFDMA technology, MU-MIMO technology
- Wi-Fi Protected Setup™ (WPS) Button

Wi-Fi 6 | AX1500

- Dual-band 2.4GHz + 5GHz, with transmission speeds up to 1200Mbps on 5GHz and 300Mbps on 2.4GHz
- 4×external/internal omnidirectional antennas to improve coverage and multi-device performance
- WPA/WPA2, WPA-PSK/WPA2-PSK encryption for improved network security on personal networks
- Supports MU-MIMO technology
- Wi-Fi Protected Setup™ (WPS) Button

Wi-Fi Products

Application Scenarios: smart home, small enterprises, shopping malls, campus

Router

Wi-Fi 5 | AC1200

- Speed up to 1200Mbps (2.4GHz - 300Mbps, 5GHz - 900Mbps)
- Supports WPA/WPA2, WPA-PSK/WPA2-PSK/WPA3, offering superior network security
- Supports MU-MIMO, meeting the needs of high-quality HD video streaming, gaming, and file transfer
- Convenient network setup
- 4×external antennas to improve coverage

Wi-Fi 4 | N300

- Wireless Rate up to 300Mbps
- 2 External High Gain Antennas
- 11N Wireless Technology for More Wireless Terminal Access

USB Adapter

Wi-Fi 6 | AX1800

- Gets 1201Mbps on 5GHz or 574Mbps on 2.4GHz on desktop, laptop PC with this USB WiFi 6 adapter
- Supports WPA3 encryption, the latest security protocol to provide enhanced protection in personal password safety
- Supports MU-MIMO and OFDMA
- Driver-free, no need to install drivers on CD-ROM

Repeater

Wi-Fi 6 | Repeater AX1500

- Compatible with most wireless routers and gateways
- Rapid transmission speed, supporting up to 1500M transmission rate with Wi-Fi 6
- Seamless roaming, enabling connection to the strongest Wi-Fi signal without manually switching
- Space-saving wall-mounted design
- Dual-band Wi-Fi enables effortless 4K streaming, gaming, and video chats

AON Products

Application Scenarios: smart home, small enterprises

ONT (Wi-Fi)

XGS-PON AX3000

- 512MB RAM，256MB Flash
- 1*2.5GE+3*GE+1*POTS+1*USB
- Wi-Fi 6 technology with speeds up to 3000Mbps
- 2.5G ultra-gigabit LAN port for ultimate broadband experiences
- Mesh networking for seamless Wi-Fi coverage
- ITU-T G.9807 protocol standards

GPON AX3000

- 512MB RAM, 256MB Flash
- AX3000+2*POTS+4*GE+1*USB
- Dual-band Wi-Fi with speeds up to 3000Mbps
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, supporting 1.25G symmetrical rate

GPON AC1200

- 256MB RAM, 128MB Flash
- AC1200+1*POTS+4*GE+1*USB
- Dual-band Wi-Fi with a maximum rate of 1167Mbps
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, supporting 1.25G symmetrical rate

## ONT (Non Wi-Fi)

GPON

- 128MB RAM, 64MB Flash
- 4*GE+1*POTS
- Rich VOIP features including fax, call waiting, and three-way calling
- Full Gigabit Ethernet ports with 10M/100M/1000M interface speed auto-negotiation
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, 1.25G symmetrical rate

GPON

- 128MB RAM, 64MB Flash
- 4*GE
- Gigabit Ethernet ports, supporting auto-adaptive interface speeds of 10Mbit/s, 100Mbit/s, 1000Mbit/s
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, supporting 1.25G symmetrical rate

GPON
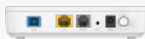
- 64MB RAM, 16MB Flash
- 1*GE+1*POTS
- Sleek and compact design for easy deployment
- Rich VOIP features including fax, call waiting, and three-way calling
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, supporting 1.25G symmetrical rate

2.5GE XPON SFU

- 32MB RAM, 16MB Flash
- 1*XPON+1*2.5GE
- Sleek and compact design for easy deployment
- Unified network management for simplified operations
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE 802.3ah protocolstandards, supporting 1.25G symmetric rate

1GE XPON SFU

- 32MB RAM, 16MB Flash
- 1*XPON+1*GE
- Low-cost XPON ONT, flexible deployment
- Unified network management for simplified operations
- ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate
- IEEE802.3ah protocol standards, supporting 1.25G symmetrical rate

AON Products

Application Scenarios: smart home, small enterprises

FTTR

Master ONT

- 10G downstream rate, delivering gigabit network to every corner throughout the house
- 512 MB DDR memory and 256 MB Flash storage, high performance for various applications
- Wi-Fi 6 with a transmission speed of up to 3000Mbps
- Seamless roaming and switching for clients
- Compliant with ITU-T G.987 protocol standards

Desktop Slave ONT

- 512MB RAM, 256MB Flash
- 2xGE + 2.4G & 5G Wi-Fi 6(AX3000)
- EasyMesh wireless roaming with no insufficient zones
- 160MHz bandwidth, achieving transmission speed up to 3000Mbps
- Fiber uplink access, delivering gigabit networking to every room
- Dual gigabit interfaces for gigabit broadband access applications
- Compliant with ITU-T G.984 standards for 2.5G downlink rate and 1.25G uplink rate

Panel-mounted Slave ONT

- 1xGE + 2.4G & 5G Wi-Fi 6
- EasyMesh wireless roaming with no insufficient zones
- 160MHz bandwidth, achieving transmission speed up to 3000Mbps
- Optical-electrical composite cables for remote power supply from the gateway

Ceiling-mounted Slave ONT

- 1xGE + 2.4G & 5G Wi-Fi 6
- EasyMesh wireless roaming with no insufficient zones
- 160MHz bandwidth, achieving transmission speed up to 3000Mbps
- Optical-electrical composite cables for remote power supply from the gateway

OLT

XG(S)-PON OLT

- 8*XG(S)-PON/GPON + 8 *10GE/GE SFP + 2*100G
- Support 10G PON without changing ODN network architecture or replacing GPON OLT
- allowing for mixed networking of different types of ONUs
- Meeting the demands of various services including broadband, VoIP, and IPTV

GPON OLT

- 8*GPON+4*10GE+4*GE
- Lightweight OLT: Small form factor suitable for small-scale POL networks
- Flexible Deployment: Quick installation in indoor cabinets and outdoor enclosures
- High Reliability: Dual-power redundant backup for enhanced reliabilit

MBB Products

Application Scenarios: ISP, e-commerce, SMB

MiFi

4G CPE

- LTE Cat4, Wi-Fi 2.4G, N300
- 1*Micro USB
- Battery: 2100mAh/3000mAh

5G CPE

MM521B7

- Speed up to 4.67Gbps/2.5Gbps in
  SA mode and 3.74Gbps/1.46Gbps
  in NSA mode
- Supports 802.11b/g/n/ac/ax Wi-Fi 7,
  BE7200, and dual-band Wi-Fi
  hotspot sharing at 2.4G/5.8GHz
- Supports up to 32 users
- 1 2.5G port, 2 Gigabit Ethernet
  ports, 1 RJ11 voice port, VOLTE
  voice calls (optional)

MM521X2

- Speed up to 4.67Gbps/2.5Gbps in
  SA mode and 3.74Gbps/1.46Gbps
  in NSA mode
- Supports 802.11b/g/n/ac/ax Wi-Fi 6,
  AX1800, and dual-band Wi-Fi
  hotspot sharing at 2.4G/5.8GHz
- Supports up to 32 users
- 2 Gigabit Ethernet ports, 1 RJ11
  voice port, VOLTE voice calls
  (optional)

MU541X2

- Supports 5G SA/NSA, 3GPP R15
  Wi-Fi6 AX1800
- 5G: 3GPP Release 15
  Ethernet: IEEE 802.3
  Wi-Fi: IEEE 802.11b/g/n/a/ac/ax
- 1xGE WAN/LAN port, 3x GE LAN
  port, 1x RJ11 port(Optional)

4G CPE

MA420N

- Supports 4G CAT4 and
  802.11 a/b/g/n Wi-Fi standards
- 2.4G, Wi-Fi2*2 MIMO
- Built-in power, Type-C 5V 3A

MZ411NB

- Supports 4G CAT4 and
  802.11 a/b/g/n Wi-Fi standards
- Dual-external antenna
- Supports RJ11 voice calls
- Battery: 4000mAh 3.7V

Security Products

Application Scenarios: smart home, small enterprises, shopping malls, campus, outdoors

Pan & Tilt IP Camera

4MP Indoor Pan & Tilt Camera

- Model: DB-YD11/ DB-YD12/ DB-YD13
- High Quality Imaging with 4MP Resolution
- Two-way Audio as Like Face-to-face Communication
- Sharp details in both light and shade with a night
  Vision distance of 10 meters
- Cloud Storage and Micro SD Card Storage
- Wired/wireless Connection, DC5V 1A Power Supply

3MP Indoor Pan & Tilt Camera

- Model: DB-YC21 / DB-YC22
- High quality imaging with 3MP resolution
- Two-way voice intercom
- Motion detection and sound detection
- Customized detection zones
- Easily recognize facial features
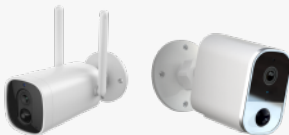- TF card storage and cloud storage

3MP Indoor Card Camera

- Model: DB-FC21/DB-FC22
- Great quality video with 3MP resolution
- Motion detection and sound detection
- Customized detection areas
- Human detection
- TF card storage and cloud storage

Bullet IP Camera

3MP Battery-powered Camera

- Model: DB-BC21/ DB-BC22
- High quality imaging with 3MP resolution
  powered by battery
- Two-way voice intercom
- PIR detection and human detection
- Customized detection areas
- Infrared night vision and full-color night vision
- TF card storage and cloud storage

4MP Outdoor Bullet Camera

- Model: DB-QD11/ DB-QD12/ DB-QD13
- High quality imaging with 4MP resolution
- Built-in microphone for real-time auto security
- Excellent low-light performance
- Motion detection, human detection, and zoned alarms
- TF card storage and cloud storage

Security Products

Bullet IP Camera

3MP Outdoor Bullet Camera

- Model: DB-QC11/ DB-QC12
- High quality imaging with 3MP resolution
- Two-way voice intercom
- Human detection, motion detection and sound detection
- Customized detection areas
- Alert notifications
- TF card storage and cloud storage

Dome IP Camera

3MP Outdoor Dome Camera

- Model: DB-PC21/DB-PC22
- 1/2.8" CMOS Image Sensor
- Resolution: 2560x1440@20fps
- Lens: Focal length 4mm, Aperture F2.0
- Network Interface: One RJ45 port
- Infrared night vision and full-color night vision
- Wireless: 2.4GHz Wi-Fi, 802.11b/g/n
- Motion detection, sound detection, and human detection
- TF card storage (up to 256GB), and cloud storage

Switch Products

Application Scenarios: enterprises

Managed Access Switch

WS3486-GT XS: 48-port Gigabit Fully Electrical Managed Access Switch

- Downlink Ports: 48*10/100/1000BASE-T,
  Uplink Ports: 4*SFP+2 Dedicated 12.5G Stacking Ports
- Gigabit Access with High Cost-effectiveness
- Supports Layer 2, Security Protection Mechanisms,
  ACL/QoS Policies, VLAN
- Easy to Manage and Maintain, Suitable for Small and Medium-sized
  Network Access Layers in Enterprises, Campuses, and Other Scenarios
- High Performance, High Security, and High Reliability

WS3244-GT XS

- Downlink Ports: 24*10/100/1000BASE-T, Uplink Ports: 4*SFP+
- Gigabit Access with High Cost-effectiveness
- Supports Layer 2, Security Protection Mechanisms,
  ACL/QoS Policies, VLAN
- Easy to Manage and Maintain, Suitable for Small and Medium-sized
  Network Access Layers in Enterprises, Campuses, and Other Scenarios
- High Performance, High Security, and High Reliability

Unmanaged Access Switch

WS2482-GT XS

- Downlink Ports: 48*10/100/1000BASE-T, Uplink Ports: 2*SFP+
- Easy Installation, Providing Rich Services
- Three Modes to Cater to Various Scenarios: Standard Mode,
  Flow Control Off, and Port Isolation
- Plug-and-play Design for Convenient Operation
- High Anti-interference Capability, Supporting 6KV Lightning Protection,
  Well-suited for Various Harsh Environments

WS2242-GT XS

- Downlink Ports: 24*10/100/1000BASE-T, Uplink Ports: 2*SFP+
- Easy Installation, Providing Rich Services
- Three Modes: Standard Mode, Flow Control Off, and Port Isolation,
  to Adapt to Various Application Environments
- Plug-and-play for Convenient Operation
- High Anti-interference Capability, Supporting 6KV Lightning Protection,
  Well-suited for Various Harsh Environments

Switch Products

Unmanaged PoE Switch

WS2082-GTSFP-P120

- Downlink Ports: 8*10/100/1000Base-T, Uplink Ports: 2*1000Base-X SFP
- Compact and Elegant Appearance, Convenient for Deployment
- Provides Three Working Modes: Extend, Default, and VLAN
- Plug-and-play for Convenient Operation
- Compliant with IEEE 802.3af/at Standards,
  Single-port PoE Power up to 30W

WS1082-TGT-P120

- Downlink Ports: 8*10/100BASE-T, Uplink Ports: 2*10/100BASE-T
- Compact and Elegant Appearance, Easy to Use and Maintain
- Three Working Modes: Extend, Default, and VLAN
- Plug-and-play for Convenient Operation
- Compliant with IEEE 802.3af/at Standards,
  Single-port PoE Power up to 30W

WS1042-TT-P60

- Downlink Ports: 4*10/100BASE-T, Uplink Ports: 2*10/100BASE-T
- Compact and Elegant Appearance, Easy to Use and Maintain
- Three Working Modes of Extend, Default, and VLAN
- Plug-and-play for Convenient Operation
- Compliant with IEEE 802.3af/at Standards,
  Single-port PoE Power up to 30W

Innovative Products

Application Scenarios: aviation, navigation, drilling platforms, field surveying and mapping, geological exploration, emergency rescue and other areas where the base stations cannot cover

Satellite Communication

Satellite Portable Station

- Antenna Type: High Gain Microstrip Antenna
- BUC: 8W/16W (Ku)
- Star Search Mode: Auto
- Modem: Skyway or IQ200 (0.35m)

Modem Board

- Technology System: TDM/MF-TDMA
- Symbol Rate: Forward 100ksps-45Msps, Back Towards 100ksps-45Msps
- Technical Features: Onesat@Time Gap Fast Frequency Hopping, Ultra-Low Demodulation Threshold, Adaptive Modulation and Coding, Adaptive Power Control

Low Orbit IOT Terminals

- Transmitted Power: 0.5W/1W, Default 0.5W
- Upstream Rate: 1.2/2.4/4.8/9.5kbps
- Downstream Rate: 2.4kbps
- Terminal Form: Support Container, Car, Ship and Other Installation Methods
- When the Low-Orbit Constellation Network is Completed, the Above is the Line Cloud Module Index

IoT Communication Module

- Transmit Power: 0.5W/1W, Default 0.5W
- Upstream Rate: 1.2/2.4/4.8/9.5kbps
- Downstream Rate: 2.4kbps
- Terminal Form: Support Container, Car, Ship and Other Installation Methods

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