

**Connect Beyond Boundaries**

# 5G ODU 2000 SERIES

5G High speed . Cloud-Managed . Outdoor IP67

5G cellular greatly enhances the flexibility and convenience of the network at any time and anywhere, which means enterprises can easily build a 5G network in just a few minutes to improve the competitiveness of digital business development. The cloud-managed 5G ODU 2000 series, combined with InCloud Manager SaaS service, provides global customers with high-speed, convenient, and secure 5G efficient networks.

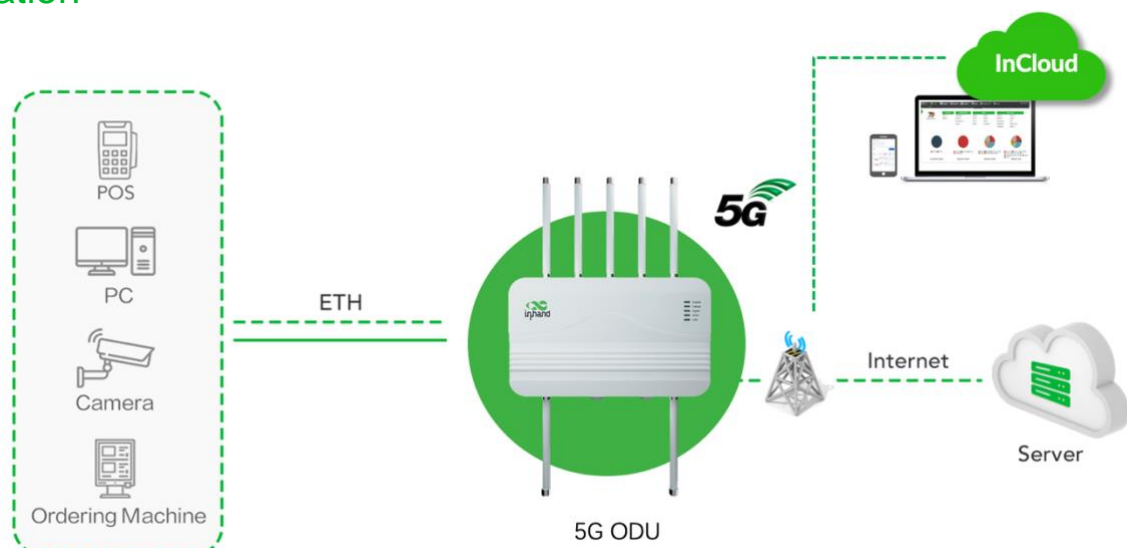
5G ODU is a key part of the cellular gateway series launched by InHand for WAN, which can instantly deploy ultra-high speed 5G network by having gigabit cellular uplink without waiting on broadband; supporting dual SIM card switch network; adapting to the harsh environment. 5G ODU can provide a better and more stable network.

Combined with InCloud Manager, 5G ODU forms a cloud-managed network solution, providing global customers with high-speed and secure network access, and simple and convenient network management services to empower your core business.

Ideal for a wide range of application scenarios:

- **Chain Branch Networking**
  - Convenience Store
  - Fast food restaurants
  - Clothing chain stores
  - Retail chain
  - Cosmetic chain stores
  - Pharmacy
  - New style tea drink chain store
  - Chain Hotel
- **Enterprise Branches Networking**
  - Small enterprise office network
  - Small and medium-sized branches
  - SOHO Office
  - Education and training institutions
  - Financial branch outlets
  - Government

## Application



## Features and Advantages

- + 5G high-speed cellular network
- + Plug-and-play deployment
- + Dual SIM card network
- + Zero-Touch deployment
- + IP67 protection
- + Refined and visualized network management

### ● Unlock the Power of 5G

Leveraging high-performance and fast 5G cellular network access, InHand 5G ODU delivers excellent connectivity with low latency, fully unlocking the potential of 5G

- 5G high-speed, DL:4.76Gbps, UL:1.25Gbps
- 5G Sub-6 GHz, Support SA & NSA networking
- Compatible with LTE CAT19

### ● Improved Efficiency, Empower User Experiences

With outstanding performance, InHand 5G ODU helps enterprises build more robust and agile networks, facilitating business growth with improved experience

- Throughput up to 2Gbps
- 2\*2.5Gbps Ethernet port
- WAN/LAN or dual LAN
- PoE-enabled LAN port

### ● Efficient Cloud Management

The InHand 5G ODU, paired with the InCloud Manager, enables seamless cloud management of distributed sites at scale. Gain real-time network monitoring and enhance IT management efficiency from anywhere, breaking free from limitations.

- Unified management access platform
- Simple and intuitive graphical data
- Easy-to-use management interface
- Overview of business

### ● Zero-Touch Remote Deployment

Zero-touch deployment streamlines the process effortlessly. Non-IT individuals can easily power and install on-site network equipment, while IT professionals remotely configure and troubleshoot devices from the cloud, reducing deployment costs.

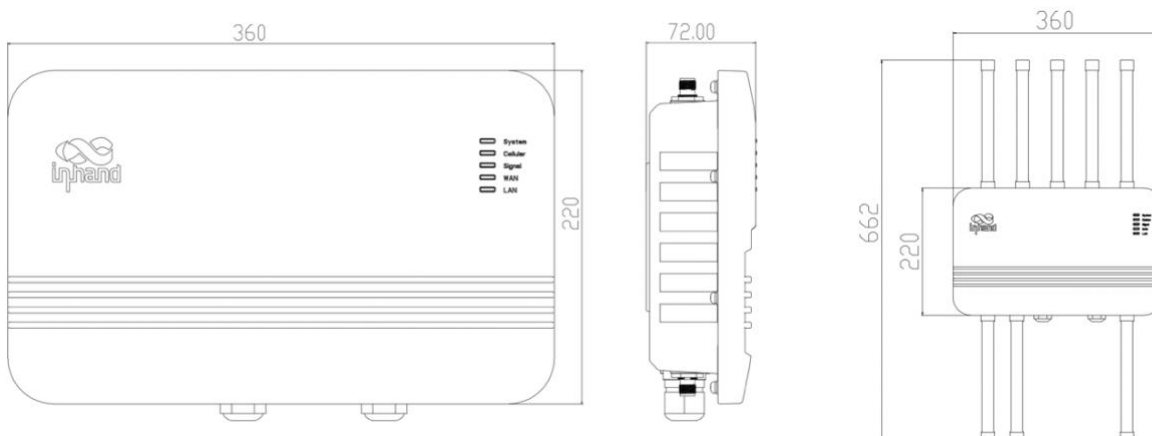
- Plug & play
- App configuration
- Web configuration
- Configuration via InCloud Manager

### ● Purposely Designed for Outdoors

Committed to rigorous design principles, the InHand 5G ODU exemplifies meticulous attention to detail. From product design to component selection, every aspect is carefully crafted, ensuring exceptional performance even in harsh outdoor environments.

- IP67 protection rating
- Die-cast aluminum metal housing, fanless design
- Operating temperature: -30~70°C
- Flexible wall/pole mounting with adjustable angles
- External 6 high-performance 5G antennas made of fiberglass
- High-precision GPS location tracking

## Dimensions (mm)



# Specifications

5G ODU 2000 Hardware	
Hardware Platform	
Throughput	Up to 2Gbps
Recommended Users	200
Interface Description	
Cellular	5G: 4.67Gbps (DL)/1.25Gbps (UL) 4G: 1.6Gbps (DL)/200Mbps (UL)
Ethernet Port	2*2.5 GbE RJ45 WAN/LAN switchable, Dual-LAN PoE in LAN Port
USB	1* Type-C 2.0
GPS	GPS/GLONASS/Beidou/Galileo/QZSS
SIM	1*eSIM 2*SIM, Nano 4FF SIM slot, Hot plug
RESET	Reset button
Ground Terminal	1*GND
Lights	System, Cellular, Signal, WAN, LAN
Antenna Interface	TNC-type connectors 6*Sub 6, 1*GNSS, 1*Wi-Fi
Wi-Fi	
Radio Frequency	Single band 2.4GHz
Max Transmission Bandwidth	150Mbps
Transfer Protocol	802.11 b/g/n
Maximum Output Power	17dBm
Operating Model	AP mode
Power Supply	
Power	Power over Ethernet (PoE) - 802.3at
Power Consumption	≤15W
Mechanical Features	
Installation	Wall mounting, pole mounting
Dimensions & Weight	360*220*72(mm), 2.87kg
Housing & Cooling	Metal & Fanless
Environment	
Working Temperature	-30°C to 70°C (-22°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% (non-condensing)
Protection Level	IP67
Salt Mist	IEC60068-2-52
EMC	
Electrostatic Discharge Immunity	EN61000-4-2, level 3
RFI Radio Frequency Immunity	EN61000-4-3, level 3
Electrical Fast Transient/Burst Immunity	EN61000-4-4, level 3
Surge	EN61000-4-5, level 3
Immunity to Conducted Disturbances	EN61000-4-6, level 3
RE/CE	Class A, Margin 3dB
Physical Properties	
Shockproof	IEC60068-2-27
Vibration Resistance	IEC60068-2-6
Free Fall	IEC60068-2-32
Certificates	
Certificates	FCC, IC, PTCRB, VZW, ATT*, TMO*, CE*
Warranty	3 years

Cloud-based Management 5G ODU 2000 Function	
Completely Based on Cloud Management	
InCloud Manager	Centralized management platform Simple and intuitive dashboard User-friendly management Batch upgrade and management
Uplink Management	
Network Access	Multiple network access, 5G/4G cellular network access, ETH network access
Dial-up Service	Support PPPoE, cellular automatic redial, dual SIM switching, APN configuration
Smart Link	Link backup/packet-by-packet load balancing among multiple links Real-time detection of link delay, jitter, and packet loss Supports priority adjustment
Monitoring & Alerting	
Dash Board	Device information, interface status, and refined traffic
Link Monitoring	Link delay, jitter, packet loss, and throughput monitoring
Cellular Signal	Real-time view of cellular signal strength, RSSI, RSRP, RSRQ, SINR
Log & Alarm	System logs, diagnostic logs, device events, email alerts
Network Function	
IP Protocol	IPv4/IPv6*
IP Application	VLAN, DHCP server/client, DNS, DDNS*, fixed address assignment, IP passthrough
Interface Management	Duplex mode, link negotiation rate, interface enable
Wi-Fi	Support 2.4G Wi-Fi, AP
Policy Management	Policy routing, traffic shaping
Self-recovering	Built-in software and hardware watchdog, self-healing equipment operation failure, to ensure the equipment maintains high availability
Remote Maintenance	
Remote Access Control	Support Web/Cli remote access
Cloud Connection	Remote maintenance of PCs, monitoring equipment, servers, etc.
Network Diagnostics	Support Ping, Traceroute, network packet capture tools, diagnostic logs
Configuration Backup	Support configuration import and export

Note: The functions marked with \* are not implemented yet.

## Ordering Guide

Model- <WMNN> : Type & Module	Cellular Type
ODU2002-NAVA	(For North America, Verizon, ATT) 5G Sub 6: n2/5/7/12/14/25/30/41/48/66/71/77/78 LTE FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE TDD: B41/46/48
ODU2002-NATM	(For North America, T-Mobile) 5G Sub 6: n25/41/66/71 LTE FDD: B2/4/5/12/66/71 LTE TDD: 41 LAA: B46
ODU2002-EUNR	(For Europe/Australia/Asia) 5G Sub 6: n1/3/5/7/8/20/28/38/40/41/71/77/78/79 LTE FDD: B1/3/5/7/8/20/28/32/71 LTE TDD: B38/40/41/42/43

### About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of both Rockwell Automation Technology Partner in Asia-Pacific and Schneider Electric Technology Partner, InHand Networks defines industrial innovation and reliability.



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