

Connect Beyond Boundaries



ODU2002 5G Outdoor Unit

· 5G

· Cloud-Managed

· Outdoor IP67

· Link Backup

1. Product Overview

The ODU2002 is a 5G outdoor unit delivering high-speed cellular connectivity with up to 4.76 Gbps downlink and 1.25 Gbps uplink, supporting SA/NSA networks and LTE CAT 19 fallback. It provides reliable high-speed access in harsh outdoor environments.

Features and Advantages:

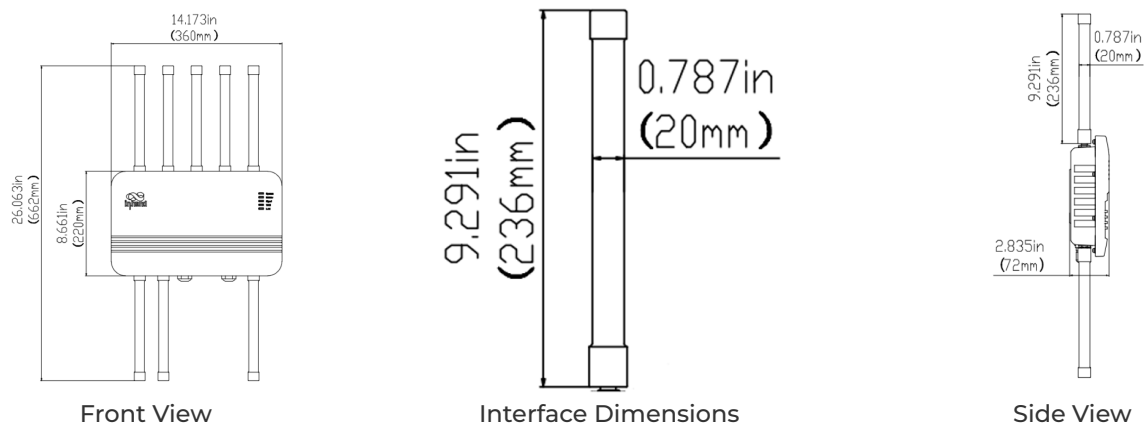
- **Unleash the Power of 5G:** Up to 4.76 Gbps DL / 1.25 Gbps UL, LTE CAT 19 fallback
- **Worry-free Connectivity:** 5G/wired backup, cellular failover, dual-SIM switching, optional eSIM, fault self-recovery
- **Harsh Outdoor Environments:** IP67 rating, wide temperature (-30 °C ~ +70 °C (-22 °F ~ +158 °F)), GPS, PoE power, wall/pole mounting
- **Cloud-Managed:** InCloud Manager for zero-touch deployment, remote configuration, visualized monitoring
- **Security:** Robust protection for reliable outdoor deployment

Core Technical Specifications

Technical Item	Specification
Cellular	5G SA/NSA + LTE Cat19; up to 4.76 Gbps DL / 1.25 Gbps UL (5G); dual-SIM / optional eSIM
GNSS	GPS, GLONASS, Beidou, Galileo, QZSS
Cloud Management	InCloud Manager
VPN	IPsec, L2TP
Network & Security	IPv4/IPv6; VLAN, DHCP, DDNS; PPPoE; dual-SIM; link backup; NAT; firewall, ACL
Wi-Fi	802.11 b/g/n, 2.4 GHz AP, 150 Mbps

Technical Item	Specification
Throughput / Users	Up to 2 Gbps; up to 200 users
SIM	2 × Nano-SIM (hot-swap); eSIM optional
Ethernet / PoE / USB	2 × 2.5 GbE (WAN/LAN); PoE 802.3af/at in; USB-C 2.0
Antennas	TNC: 6 × Sub-6 + 1 × GNSS + 1 × Wi-Fi
Power / Mechanical	PoE 802.3at; ≤15 W; 360 × 220 × 72 mm (14.17 × 8.66 × 2.83 in); 2.87 kg (6.33 lb); metal; fanless; wall/pole; IP67
Environment	-30 °C ~ +70 °C (-22 °F ~ +158 °F) op.; IEC 60068 salt mist / shock / vibration / drop

2. Product Dimensions



Note:

1. All dimensions are in millimeters (mm), with inches (in) in parentheses.
2. Dimensions (L × W × H): 360 × 220 × 72 mm (14.17 × 8.66 × 2.83 in).
3. All dimensions are approximate, for reference only.
4. Dimensions shown shall not be used for production.

3. Hardware Specifications

Category/Parameter	Specification
Performance Metrics	
Throughput	Up to 2 Gbps
Recommended Users	200
Interfaces	
Ethernet	2 × 2.5 GbE RJ45, WAN/LAN switchable, dual-LAN
PoE	PoE in LAN port (802.3af/at)
USB	1 × Type-C 2.0
GNSS	GPS / GLONASS / Beidou / Galileo / QZSS
SIM	2 × Nano 4FF, hot plug
Reset	Reset button
Ground	1 × GND
LED	System, Cellular, Signal, WAN, LAN
Antenna	TNC-type; 6 × Sub-6, 1 × GNSS, 1 × Wi-Fi
Cellular	
Data Rate	5G: 4.76 Gbps DL / 1.25 Gbps UL; 4G: 1.6 Gbps DL / 200 Mbps UL
5G Antenna Freq.	600–5000 MHz
5G Antenna Gain	6.46 dBi
Wi-Fi	
Frequency	2.4 GHz single-band
Max Bandwidth	150 Mbps

Category/Parameter	Specification
Protocol	802.11 b/g/n
TX Power	17 dBm
Power	
Input	Power over Ethernet (PoE) 802.3at
Power Consumption	≤ 15 W
Mechanical	
Dimensions	360 × 220 × 72 mm (14.17 × 8.66 × 2.83 in)
Weight	2.87 kg (6.33 lb)
Installation	Wall mounting, pole mounting
Housing	Metal, fanless
Environment	
Operating Temperature	-30 °C ~ +70 °C (-22 °F ~ +158 °F)
Storage Temperature	-40 °C ~ +85 °C (-40 °F ~ +185 °F)
Humidity	5–95 % RH (non-condensing)
Protection	IP67
Salt Mist	IEC 60068-2-52
EMC	
ESD	EN 61000-4-2 Level 3
RFI	EN 61000-4-3 Level 3
EFT/Burst	EN 61000-4-4 Level 3
Surge	EN 61000-4-5 Level 3

Category/Parameter	Specification
Conducted	EN 61000-4-6 Level 3
RE/CE	Class A, Margin 3 dB
Physical	
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Free Fall	IEC 60068-2-32
Certification	
Certification	FCC, IC, PTCRB, Verizon, T-Mobile, CE
Warranty	3 years

4. Software Specifications

Category/Parameter	Specification
Cloud Management	
Platform	InCloud Manager
Features	Centralized management, dashboard, batch upgrade, uplink management
Network Features	
Access	5G/4G, Ethernet
Dialing	PPPoE, cellular auto redial, dual-SIM switching, APN configuration
Link Backup	Packet-by-packet load balancing
Link Monitoring	Real-time delay, jitter, packet loss detection

Category/Parameter	Specification
Link Priority	Link priority adjustment
IP Protocol	IPv4 / IPv6
Applications	VLAN, DHCP Server/Client, DNS, DDNS, Fixed Address, IP Passthrough
Interface	Duplex mode, link negotiation
Security	
VPN	IPsec VPN, L2TP VPN
Firewall	Access control, port mapping, port forwarding, MAC filtering
Monitoring	
Dashboard	Device info, interface status, traffic statistics
Cellular Signal	RSSI, RSRP, RSRQ, SINR
Logs	System logs, diagnostic logs, device events, email alerts
Wi-Fi	
Mode	2.4 GHz AP mode
Policy	
Policy	Policy routing, traffic shaping
Self Recovery	
Watchdog	Software and hardware watchdog

5. Ordering Information

Model Code

Model code: ODU2002-\WMNN\

\WMNN: Type & Module

Product Models

Model	Region	Specification
ODU2002-NAVA	North America (Verizon)	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; WCDMA B2/4/5
ODU2002-NATM	North America (T-Mobile)	5G Sub-6: n25/41/66/71; LTE-FDD B2/4/5/12/66/71; LTE-TDD B41; LAA B46
ODU2002-EUNR	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

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