

# OTM AI Cylindrical Product Introduction

# Product Overview

The OTM AI cylindrical integrates key modules such as a Three-sector Beamforming Antenna, 3\*CPE, and an algorithm controller.

# Technical Features

- ✓ All-in-one machine, highly integrated
- ✓ Adopts a three-sector high-gain multi-band multi-directional receiving antenna, with low-frequency gain of  $10\text{dBi} \pm 0.5$  and high-frequency gain of  $13.6\text{dBi} \pm 0.5$
- ✓ Supports 3\*CPE, network hot backup between multiple CPEs, and selects the strongest macro base station cell
- ✓ Supports multi-CPE traffic aggregation, active-standby usage, or load sharing
- ✓ Chip R16, supports CA (Carrier Aggregation), and supports subsequent 3GPP upgrade iterations
- ✓ Supports built-in algorithm server, provides multiple marine-customized algorithms, and achieves "communication on the move", "continuous communication", and "high traffic"

# Application Scenarios

- ✓ Tourism and sightseeing, passenger ferry
- ✓ Fishing boat operation, sea fishing live broadcast
- ✓ Marine law enforcement, emergency search and rescue
- ✓ Offshore aquaculture, wind power operation and maintenance

# Product Specifications

## Specification Function

OTM AI  
cylindrical

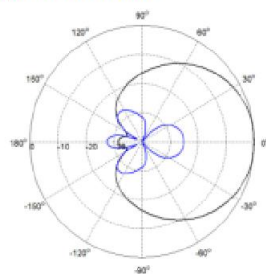


Frequency band:	N1,N5,N8,N28,N41,N78
Bandwidth:	10/20/30/100MHz
MIMO:	2T2R
CPEs number:	3*CPE
Carrier aggregation:	Support CA
SIM cards number:	3*eSIM:6*USIM(Supports dual SIM single standby)
GPS:	Built-in GPS antenna
WAN interface:	1*RJ45
LAN interface:	1*RJ45, DEBUG
Main function:	<p>A three-sector high-gain multi-directional receiving antenna achieves 14dBi high gain, 360-degree coverage, and cross-polarization.</p> <p>Each sector corresponds to an independent CPE, enhancing RSRP strength and SINR quality.</p> <p>It supports selecting the optimal sector for operation, intelligent control algorithms, network management, carrier aggregation (CA), and 3CPE hot backup to ensure network reliability.</p>
Power supply:	AC 220V
Dimensions (mm):	Φ300(Diameter)x620(Length,Height excluding mounting bracket)
Packing dimensions (mm):	850(Length)x470(Width)x475(Height)
Weight (kg):	<15kg

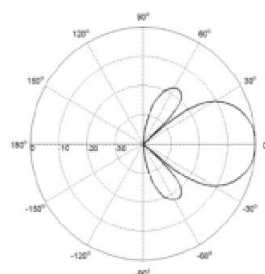
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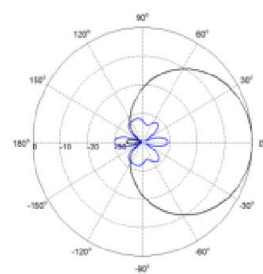
### Typical Patterns



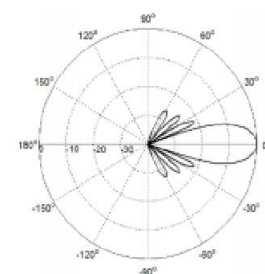
Azimuth(Low Band)



Elevation(Low Band)



Azimuth(High Band)



Elevation(High Band)