

Microwave Flat Panel Antenna

This microwave antenna integrates the IDU, ODU, and an electrically adjusted beam flat antenna to enhance portability. It features automatic alignment and provides a stable link with easy installation.



Overview

High-Performance Microwave Transmission

The AIO-1000 is a compact, high-capacity microwave flat panel antenna designed for reliable, large-scale broadband service transmission, including 4K high-definition video. It features advanced 1024QAM modulation and ACM functionality to ensure 99.999% availability in harsh environments. With its lightweight, IP66-rated design, it supports easy installation on poles or walls and offers automatic beam alignment for flexible deployment.

Technical Performance

Max Transmission Capacity

400 Mbps

Transmission Capacity

Operating Frequency

13/15/18GHz

Supported Modulation

QPSK, 16QAM, 32QAM, 128QAM, 256QAM, 512QAM, 1024QAM

Networking & Interfaces

Switching & VLAN

- IEEE 802.1Q
- Push/Pop VLAN Tags
- IEEE 802.3ad aggregation
- ITU-T G.8031/2 Switching Protection

Physical Interfaces

Interface Type	Description
Optical	1x 100/1000Base
Electrical	1x 100/1000Base (Service & Management)
Antenna	Integrated
Power	N-type

Physical Properties

Protection Rating IP66	
Dimensions (LxWxH)	286x286x165mm
Weight	2.5 kg

Environment & Power

Operating Temperature	-33°C to +55°C
Power Consumption	50 W
Power Supply	-48V DC (-36V to -72V DC)

Standards Compliance

Regulatory Standards

- EN 302 217-2-1 (Radio)
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- EN 301 489-1 (EMC)
- EN 301 489-4 (EMC)
- EN60950-1 (Safety)