

2.4Ghz Panel Antenna for ANT-10FD(10dBi) with WiFi6 Outdoor (OW-400 4N00) 1.6KM Distance PtP Throughput Test Report







1. Test Product model.



2. Introduction

The purpose of conducting this test was to determine the average throughput and signal stability of external 2.4Ghz antenna (ANT-10FD) with OW-400 4N00 at a distance of 1600M. The test specifically measured point-to-point WDS connections set through Cerio's CenOS 5.0 Software Bundle. The test was conducted between two units of OW-400 4N00 operating under 802.11ax standards.

3. Test Date and Personnel





4. Test Environment

Location A-SITE

Location **B-SITE**

The distance from Location A to Location B is roughly 1607.78 m, determined by Google Earth.













5. System Network Configuration





6. OW-400 4N00 UI Screen

Location A : MAC Add ress and WDS

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WDS狀態				
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MAC位址	Rate(RX/TX) RSSI			
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Location B : MAC Add ress and WDS

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WDS状態					
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7. TEST Tools

Test Equipme	nt			
Notebook	HP 242 G1 x1	System	Windows 10 (x64)	
	Lenovo X230 x1	OS		
Power (battery)	ALPHALINE MF85D23R x2			
Inverter	DC to AC 350W Inverter x2			
Tripod	2			
PoE Injector	Gigabit Injector (FPOE-PE-60W) x2			
RJ-45 Cables	Cat.5e x 4			
RF Cables	LLMR-NNP-1M x2			
Test products	1. External type : (ANT-10FD) x2			
	2. eXtreme High Power WiFi6 Dual-Radio external-ANT Outdoor PoE			
	Bridge/AP (OW-400 4N00)x2			
Test Software and setting information				
Application	Chariot Version 6.7			
tools				
Running time	60 sec			
software	CenOS 5.0 Layer2 Softcore Core			
	Firmware version : Pme-CPE-CERIO V0.01			
Operation mode	Using Access Point mod	e with WDS f	function	
Radio and	Radio 0 (2.4G) channel ı	range : 1-11C	CH	
Channel				





8. On-site status

Location A:





Location B:











Conclusion

In order to verify the performance of our Cerio wireless newly designed 2x2 polarized outdoor antenna product and enhance the reference for users and installers, we conducted a long-distance throughput test on the outdoor wireless antenna and access point, this time using a broadband The 10dbi 2.4ghz antenna with an angle of 10dbi has been tested point-to-point with an outdoor access model with an external antenna.

According to the 1600M test results of our 2.4Ghz external antenna (ANT-10FD) with OW-400 4N00, we concluded that although 2.4Ghz is susceptible to environmental interference, it can still be maintained under the long-distance test of 1.6KM 190Mbps transmission performance.

The Cerio Outdoor Wireless Test has proven to be an invaluable reference tool for users planning to deploy our products in a variety of outdoor environments. Through this test, we have full confidence in our team's development and design capabilities.

Our extensive experience enables us to create quality wireless network hardware and software products that consistently meet our customers' needs and deliver superior products to our customers.

