

CERIO OW-400 A3 Outdoor Access Point with ANT-10AO 5GHZ Outdoor Omni 10dBi 200 Meter Throughput Test Report



Model No.

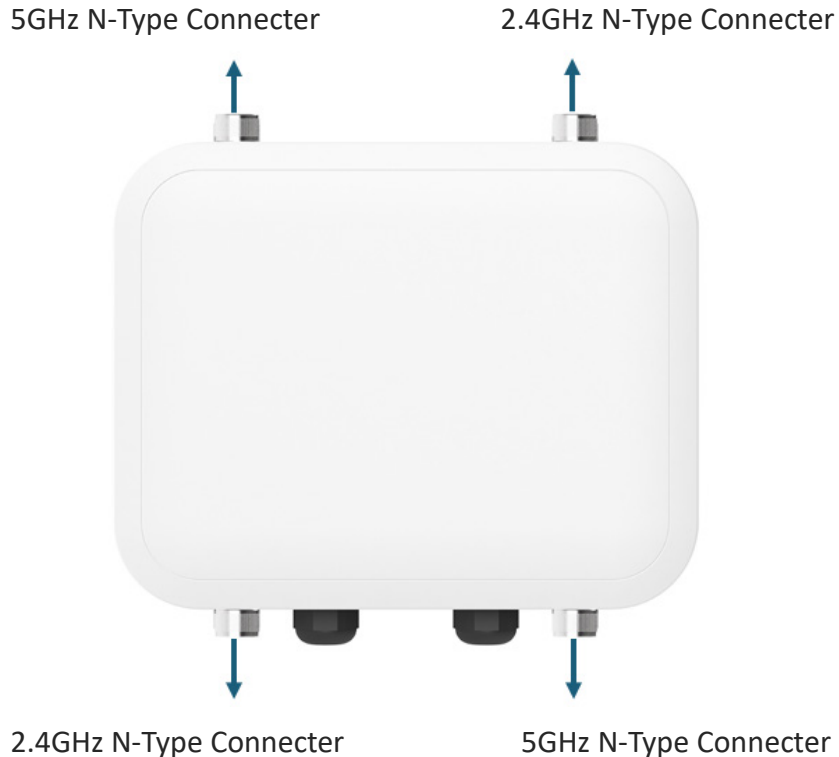
OW-400 A3 eXtreme Power Wave2 4x 11N/ac 2.4/5Ghz 2x2

External-ANT Outdoor Access Point

ANT-10AO 5GHZ Outdoor Omni 10dBi with Cables Antenna

1. Test Product model.

OW-400 A3 eXtreme Power Wave2 4x 11N/ac 2.4/5Ghz 2x2 External-ANT
Outdoor Access Point (300mW)



ANT-10AO 5GHZ Outdoor Omni 10dBi with Cables Antenna



2. Introduction

The purpose of conducting this test was to determine the average throughput and signal stability of Cerio's ANT-10AO 5GHZ Outdoor Omni 10dBi with Cables Antenna at a distance of 200 Meter. 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-A3 operating under 802.11ac standards.

3. Test Date and Personnel

Date : 03/26/2021			
Test Personnel			
		Log 3/26	Gary 3/26

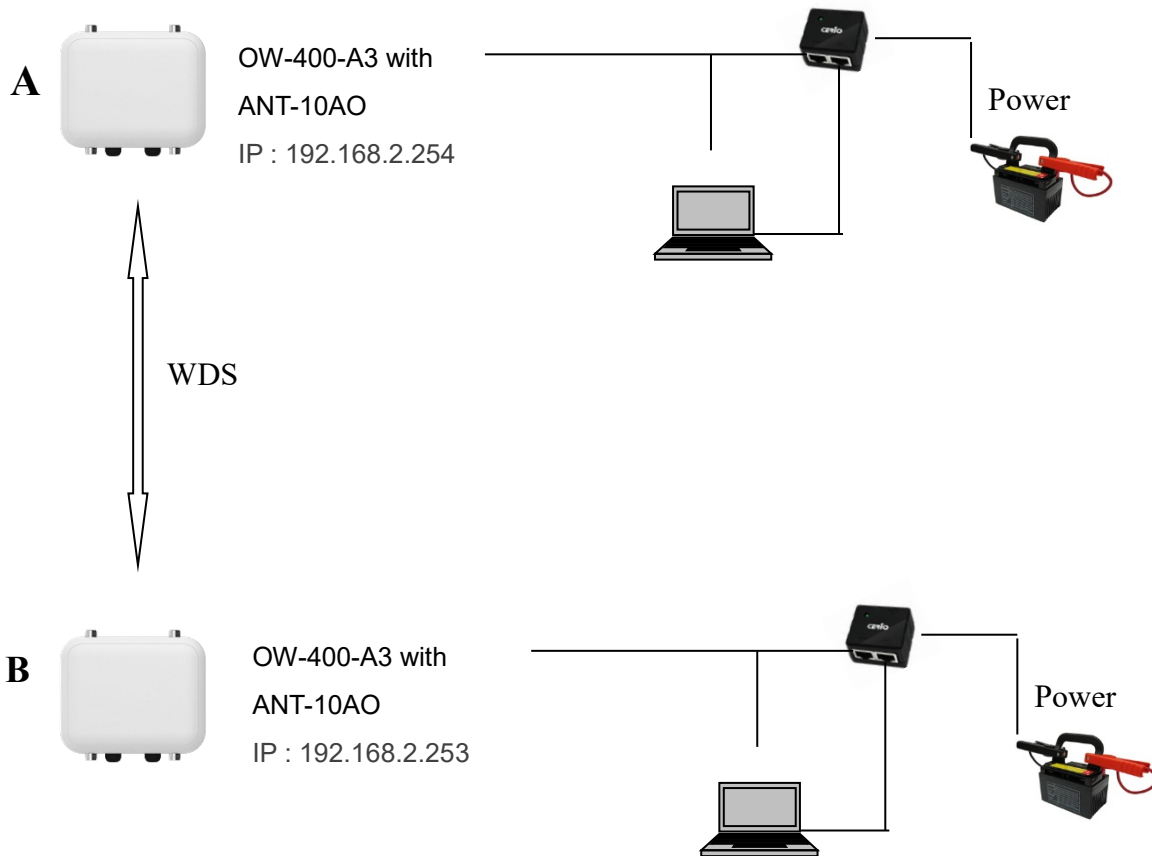
4. Test Environment

Taoyuan Daxi_Zhongzhuang Adjustment Pool

The distance from position A to position B is about 236 Meter, as determined by Google Earth.



5. System Network Configuration



6. OW-400-A3 UI Screen

Rate(RX/TX)(325Mb/325Mb) 52CH

WDS Status

Radio0 Client		
MAC Address	Rate(RX/TX)	RSSI
-	-	-

Radio1 Client		
MAC Address	Rate(RX/TX)	RSSI
8c:4d:ea:05:36:5c	325Mb / 325Mb	31

Radio2 Client		
MAC Address	Rate(RX/TX)	RSSI
-	-	-

Refresh

CenOS 5.0

Rate(RX/TX)(351Mb/433Mb)100CH

WDS Status

Radio0 Client		
MAC Address	Rate(RX/TX)	RSSI
-	-	-

Radio1 Client		
MAC Address	Rate(RX/TX)	RSSI
8c:4d:ea:05:36:5c	351Mb / 433Mb	34

Radio2 Client		
MAC Address	Rate(RX/TX)	RSSI
-	-	-

Refresh

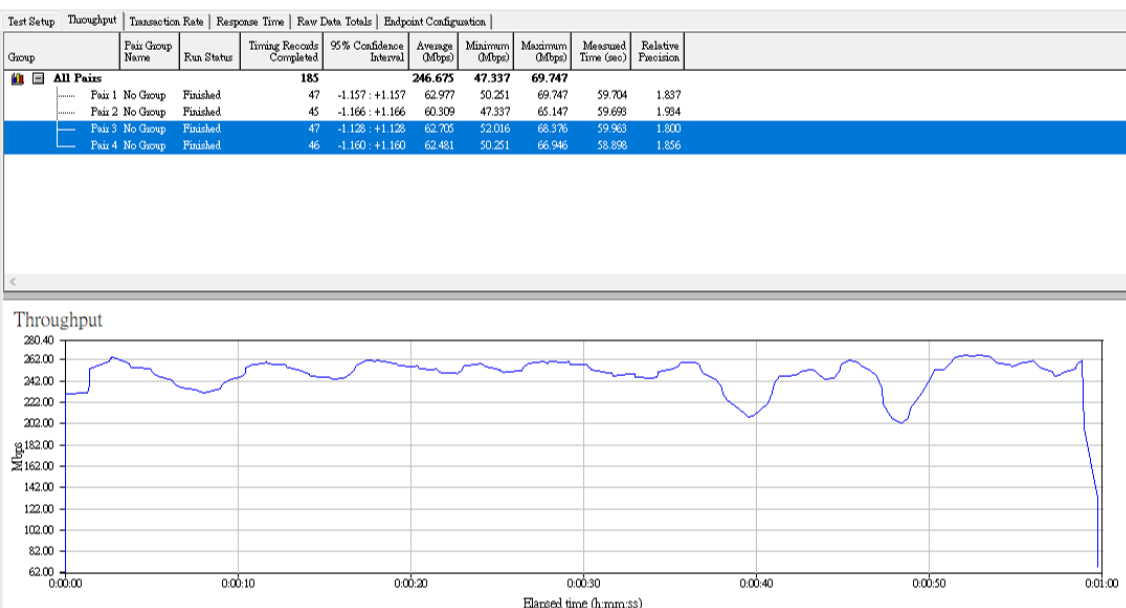
CenOS 5.0

7. Throughput test

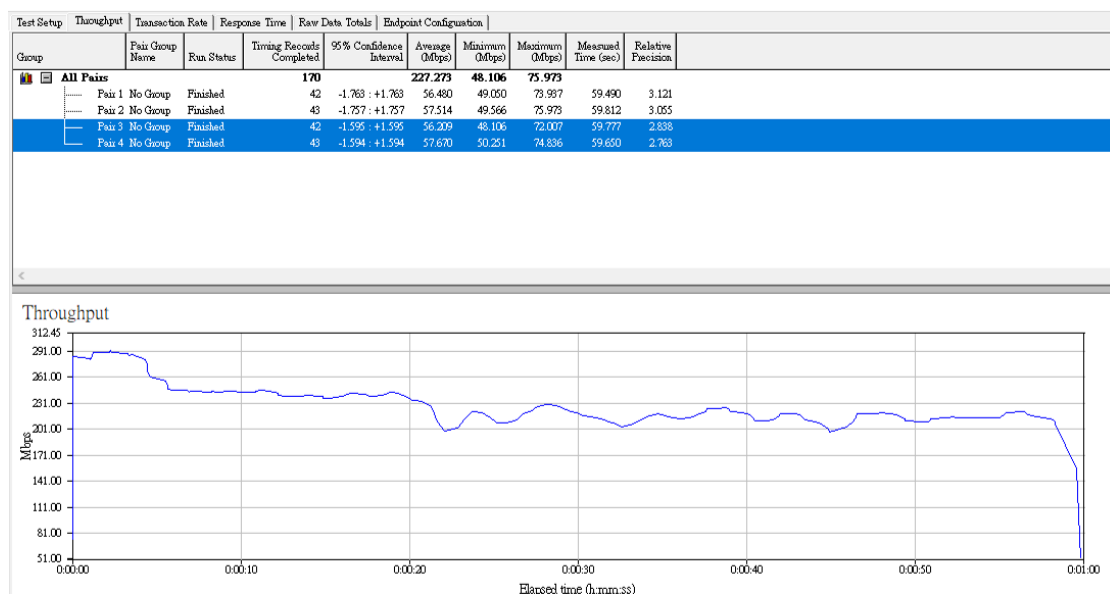
OW-400 A3 with ANT-10AO

Connection object	Channel	Throughput
A to B	52	246.675
A to B	100	227.273

236 Meter 5G Channel 52 Throughput test



236 Meter 5G Channel 100 Throughput test



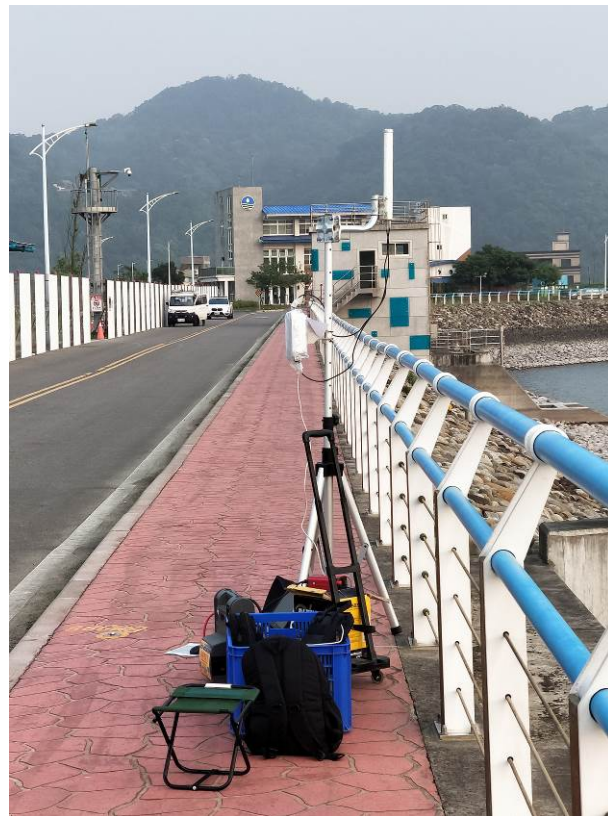
8. TEST Tools

Test Equipment			
Notebook	HP 242 G1 x1 HP 15-j031TX x1	System OS	Windows 10 (x64)
Power (battery)	ALPHALINE MF85D23R x2		
Inverter	DC to AC 350W Inverter x2		
Tripod	2		
PoE Injector	Gigabit Injector (PoE-PE03GE-30W) x2		
RJ-45 Cables	Cat.5e x 4		
Antenna	ANT-10AO x2		
Test products	EXtreme Power Wave2 4x 11N/ac 2.4/5Ghz 2x2 External-ANT Outdoor Access Point (300mW) (OW-400 A3)x2		
Test Software and setting information			
Application tools	Chariot Version 6.7		
Running time	60 sec		
software	CenOS 5.0 with MAN-MESH Softcore Core Firmware version : v1.0.7		
Operation mode	Using Access Point mode		
Radio and Channel	Radio 1 (5G) test channel: 52-100		

9. On-site status:

Location A:

Taoyuan Daxi_Zhongzhuang Adjustment Pool(Near the entrance)



Location B:

Taoyuan Daxi_Zhongzhuang Adjustment Pool(Close to the management center)



Conclusion

In order to verify our Cerio wireless product performance and instill consumer confidence, we conducted long distance throughput testing for our outdoor wireless access points. We conducted point-to-point testing using our Outdoor Access Point models with attached 10dBi 5GHz Omni antennas.

According to the results of our OW-400-A3 with ANT-10AO 200 Meter tests, we conclude that our transmission performance is extremely stable, with significant throughput levels at long distance connections. Users can also use 48V PoE Bridge to power a subsequent device such as an IP Camera or additional Access Point. Our outdoor wireless testing proves to be a very valuable reference tool for users planning on deploying our products in a variety of outdoor environments. (Examples: Wide range coverage , point to multi point application network extension, remote backhaul, remote monitoring center)

In term of this test, we demonstrate confidence in our team's ability to provide impeccable quality performance and extraordinary design. Our sophisticated experience allows us to create quality wireless networking hardware and software products. We will consistently meet customers' demands and provide our clients exceptional product.