

www.cerio.com.tw

**CERIO Outdoor Test Report** 

## **CERIO Outdoor AP**

# 35Km P2P Throughput Test Report of WDS mode

# OW-200N2-X + Dual Dish Antenna [ANT-30AN-D2]





Copyright © 2015 by Cerio Corporation. All rights reserved.



#### **CERIO Outdoor Test Report**

#### Index

1.	Test Date and Personnel	3
2.	Test Distance / Location	3
3.	Network architecture	6
4.	WDS Status (GUI)	7
5.	Throughput test	8
6.	TEST Tools	9
7.	On the scene status	10
8.	Conclusion	12



## **1.Test Date and Personnel**



## 2. Test Distance / Location

The A site on Binhai Rd, Section 7. Northeast Coast (Coffee Shop)

The **B site** on Qingshui Beach

The distance from site A to site B site is approximately 35.38Km





#### Position 1 shows: Site A (northern location) to Site B (Qinghai Beach)



Site A: Coffee Shop



Copyright © 2015 by Cerio Corporation. All rights reserved.



Position 2 shows: Site B (Qinghai Beach) to Site A (northern location: Coffee Shop)



Site B: Qinghai Beach



Copyright © 2015 by Cerio Corporation. All rights reserved.



WDS

ANT-30AN-D2(30dBi)

## 3. Network architecture







IP:192.168.2.33





## 4. WDS Status (GUI)

The WDS information by A site

System 💌	Wireless 👻 Ad	vance 🕶 🛛	Utilities 👻 Stati	нет	
WDS L	ink Status				
WDS	Link Status				
*	MAC Address	RSSI	TX/RX Rate	TX/RX SEQ	TX/RX Bytes
	00.11.3.15.47.00	34	36M / 36M	20472226	TOEVITEM

#### The WDS information by B site

Sys	tem 🤻	Wireless 🔻	Advance 🔻	Utilities	🝷 Status	<b>•</b>		
WDS Link Status								
		lists Ctatus						
	WDS	LINK Status						
	#	MAC Address	; RS	SI TX/	RX Rate	TX/RX SEQ	TX/RX Bytes	
	1	00:11:a3:1b:e7:0	01 3	4 36N	4736M	215 / 4448	41.9 K / 2.5 M	



## 5. Throughput test

#### OW-200N2-X + ANT-30AN-D2

	Average(Mbps)	Minimum (Mbps)	Maximum(Mbps)
Throughput	11.198	3.653	15.686



Copyright © 2015 by Cerio Corporation. All rights reserved.



## 6.TEST Tools

		TEST	Equipme	ent	
Notebook	HP Pavilion d	HP Pavilion dv4 x1		COMPAQ x1	
	RAM : 4G			RAM : 3G	
	CPU : Intel Core Duo 2.4GHz			CPU : P6300 2.27GH	
	OS : Windows XP sp3			OS : Windows XP sp3	
Power	350W x4				
Tripod	3				
Antenna	ANT-30AN-D	<b>2</b> 5GHz	2x2 Dire	ctional Dish 30dBi Antenna x2	
Test products	OW-200N2-X	1000m	W 11Na 3	800Mbps Outdoor Bridge x2	
		TES	T Softwa	re	
Chariot Version	🖪 Script Editor - Thr	oughput.scr			
5.4	<u>F</u> ile <u>E</u> dit Insert <u>H</u> elp				
	[Throughput]				
	Line Endpoint 1		Endpoint 2		
	1 SLEEP 2 time = initial_del	ay (0)			<b>_</b>
	3 CONNECT_INITIATE CONNECT_ACCEPT				
	5 LOOP LOOP				
	6 count = number_c	it_timing_records (1)	UU) count = 1	number_of_tamang_seconds (100)	•
	Variable Name Current Value Default Value C		Comment		
	initial_delay number_of_timing_records	0 100	0 100	Pause before the first transaction How many timing records to generate	<b>_</b>
	transactions_per_record	1	1	Transactions per timing record	
	send_buffer_size	DEFAULT	DEFAULT	How many bytes in the transferred file How many bytes of data in each SEND	
	receive_buffer_size	DEFAULT	DEFAULT	How many bytes of data in each RECEIVE	
	uansacuon_deiay send_datatype	U NOCOMPRESS	U NOCOMPRESS	Winnseconos to pause What type of data to send	
	send_data_xate destination_post	UNLIMITED	UNLIMITED	How fast to send data What port to yes for Endroint 2	
	close_type	Reset	Reset	How connections are terminated	-
		ATITO	AIITO	What now to use for Endmoint 1	
Run	Run Options Datag	ram   Result F	langes		
Run	Run Options Datag Choose how test runs	ram   Result F s are handled	langes		
Run	Run Options Datag Choose how test runs Set the test run	ram   Result F s are handled options for perf	langes   ionnance testing		
Run	Run Options Datag Choose how test runs Set the test run How to end a test ru	ram   Result F s are handled options for perf n	langes   iormance testing		
Run	Run Options Datag Choose how test runs Set the test run How to end a test ru C Run until any pai	ram   Result F s are handled options for perf n ir ends	Canges   Cormance testing		
Run	Run Options Datag Choose how test runs Set the test run How to end a test ru Run until any pai Run until all pain	ram   Result F s are handled options for perf n in ends s end	langes   formance testing		
Run	Run Options Datag Choose how test runs Set the test run How to end a test ru Run until any par Run until all pair Run for a fixed d	ram   Result F s are handled options for perf n ir ends is end unation 0	langes   iαmance testing →Hus β	÷Min 0 ÷Sec	



#### **CERIO Outdoor Test Report**

## 7.On the scene status

### A site



10

Copyright © 2015 by Cerio Corporation. All rights reserved.



**CERIO Outdoor Test Report** 

## B site



Copyright © 2015 by Cerio Corporation. All rights reserved.



## 8. Conclusion

We returned to the same testing site we used to test our older generation model to conduct distance testing of our new OW-200N2-X outdoor access point model. Our new generation of outdoor access points utilizes a new chipset model with higher CPU memory. Our findings concluded that our new OW-200N2-X 500mW provided higher RF power and transmission stability during environmental testing.

This test demonstrates confidence in our team's ability to provide quality performance and design. Our unsurpassed experienced creating quality wireless networking hardware and software products allows us to consistently meet user demands and satisfy consumer through our wealth of knowledge and product design.