

# **CERIO ANT-12A 5GHZ Outdoor Omni** 12dBi with Cables Antenna **200M Throughput Test Report**



Model No.

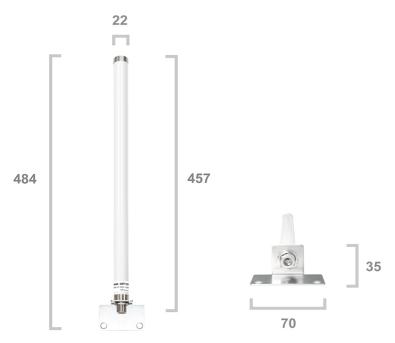
ANT-12A 5GHZ Outdoor Omni 12dBi with Cables Antenna





# 1. Test Product model.

ANT-12A 5GHZ Outdoor Omni 12dBi with Cables Antenna



Main Unit Dimension : 457 \* 22mm ( L x W ) Including bracket : 484 \* 70 \* 35mm ( L x W x H ) Weight: 156g / 216.5g (Including bracket)







### 2. Introduction

The purpose of conducting this test was to determine the average throughput and signal stability of Cerio's ANT-12A 5GHZ Outdoor Omni 12dBi with Cables Antenna at a distance of 200M. 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: 09/16/201	.9		
Test Personnel			
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# 4. Test Environment

Location A: XinDian Sixin first Road, Yangbei Second Road Location B: XinDian Sixin Second Road, Yangbei Second Road

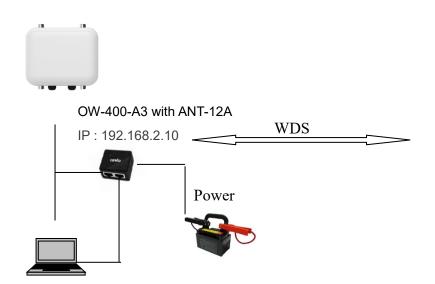
The distance from Location A to Location B is roughly 200.1M, determined by Google Earth. However, due to substantial differences in elevation, we estimate the distance to be approximately 200M.







# 5. System Network Configuration









WDS Status		
Radio0 Client		
MAC Address	Rate(RX/TX)	RSSI
2	-	-
I≣ Radio1 Client		
MAC Address	Rate(RX/TX)	RSSI
00:11:a3:1d:00:04	780Mb / 780Mb	44

Radio 0 00:11:a3:	1d:00:03
Radio 1 00:11:a3:	1d:00.04
<b>Radio 2</b> 28:24:ff:ef	£1f£17

<b>■</b> WDS Client Setup					
	Radio 0	Radio 1		Radio 2	
Enable	MAC Address	Enable	MAC Address	Enable	MAC Address
			00:11:a3:1d:00:08		28:24:ff:ef:1e:98

WDS Status				
<b>Ⅲ</b> Radio0 Client				
MAC Address	Rate(RX/TX)	RSSI		
-	-	-		
III Radio1 Client				
MAC Address	Rate(RX/TX)	RSSI		
00:11:a3:1d:00:08	650Mb / 866Mb	43		

<b>■</b> MAC Address	
Radio 0	00:11:a3:1d:00:07
Radio 1	00:11:a3:1d:00:08
Radio 2	28:24:ff.ef.1e:98

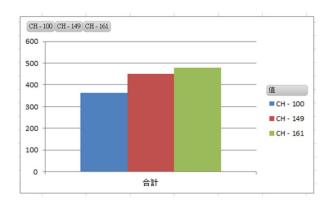
<b>Ⅲ</b> WDS Client Setup					
	Radio 0	Radio 1		Radio 2	
Enable	MAC Address	Enable	MAC Address	Enable	MAC Address
			00:11:a3:1d:00:04		28:24:ff:ef:1f:17



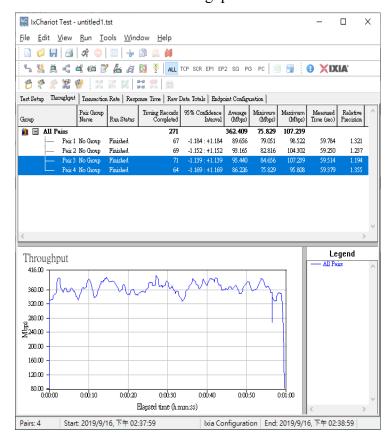
# 7. Throughput test

#### OW-400-A3 with ANT-12A

Band	Channel	Throughput
5G	100	362.409
	149	450.204
	161	478.706



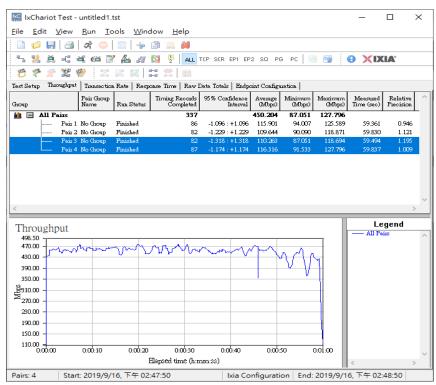
#### 200M 5G Channel 100 Throughput test



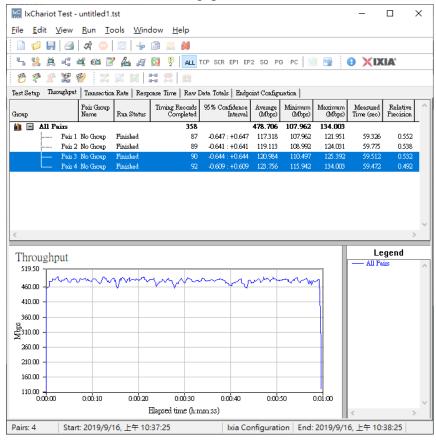




## 200M 5G Channel 149 Throughput test

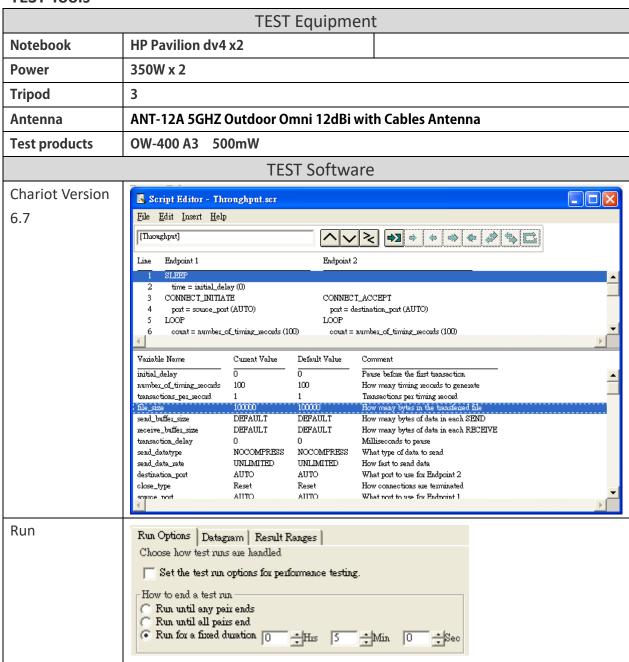


#### 200M 5G Channel 161 Throughput test





#### 8. TEST Tools



#### 9. On-site status:

Location A:

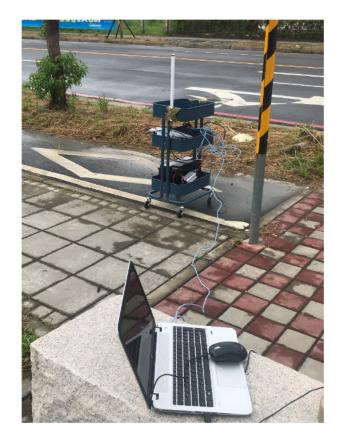
XinDian Sixin first Road, Yangbei Second Road







Location B: XinDian Sixin Second Road, Yangbei Second Road







#### 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 built-in dual-polarization directional antennas.

According to the results of our OW-400-A3 with ANT-12A 200M 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: long distance network extensions, long distance backhaul, remote surveillance centers)

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.

