

CERIO ANT-12A 5GHZ Outdoor Omni 12dBi with Cables Antenna 800M Throughput Test Report

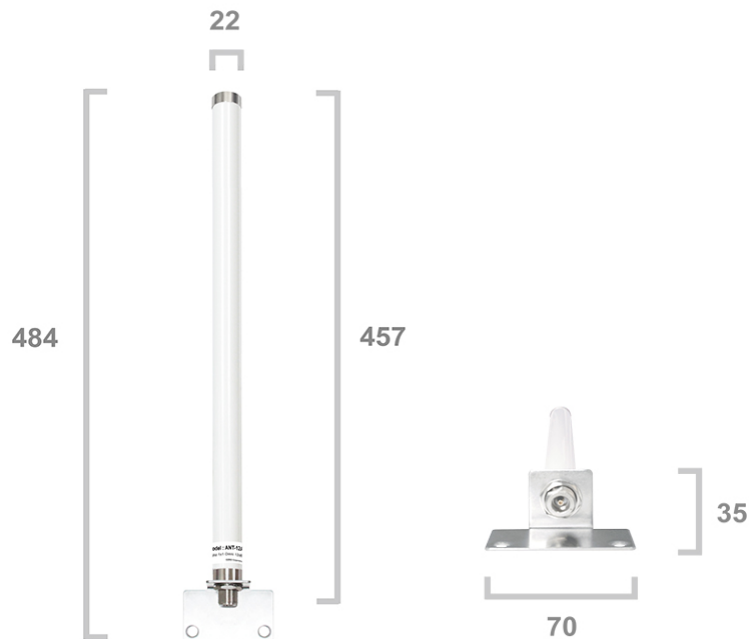


Model No.

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 800M. 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 /16/2019			
Test Persons			
	 9/16	 9/16	 Tommy 9/16/2019

4. Test Environment

Location A: XinDian High School

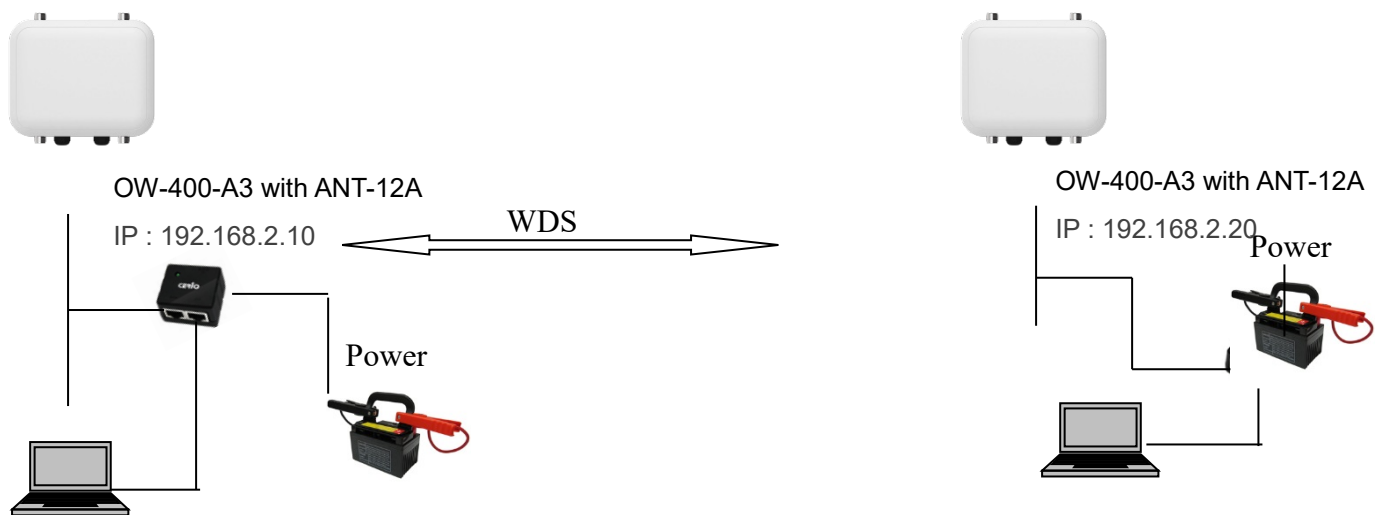
Location B: XinDian Zhongshan Road, Yangbei Second Road

The distance from Location A to Location B is roughly 800.57m, determined by Google Earth. However, due to substantial differences in elevation, we estimate the distance to be approximately 800M.





5. System Network Configuration



6. OW-400-A3 UI Screen

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

MAC Address	
Radio 0	00:11:a3:1d:00:03
Radio 1	00:11:a3:1d:00:04
Radio 2	28:24:ff:ef:1f:17

WDS Client Setup					
Radio 0		Radio 1		Radio 2	
Enable	MAC Address	Enable	MAC Address	Enable	MAC Address
<input type="checkbox"/>		<input checked="" type="checkbox"/>	00:11:a3:1d:00:08	<input type="checkbox"/>	28:24:ff:ef:1e:98

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

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

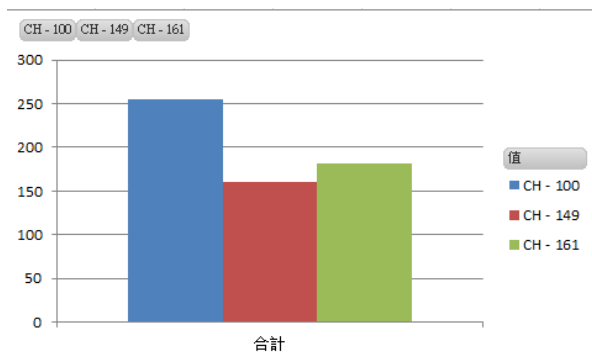
WDS Client Setup					
Radio 0		Radio 1		Radio 2	
Enable	MAC Address	Enable	MAC Address	Enable	MAC Address
<input type="checkbox"/>		<input checked="" type="checkbox"/>	00:11:a3:1d:00:04	<input type="checkbox"/>	28:24:ff:ef:1f:17



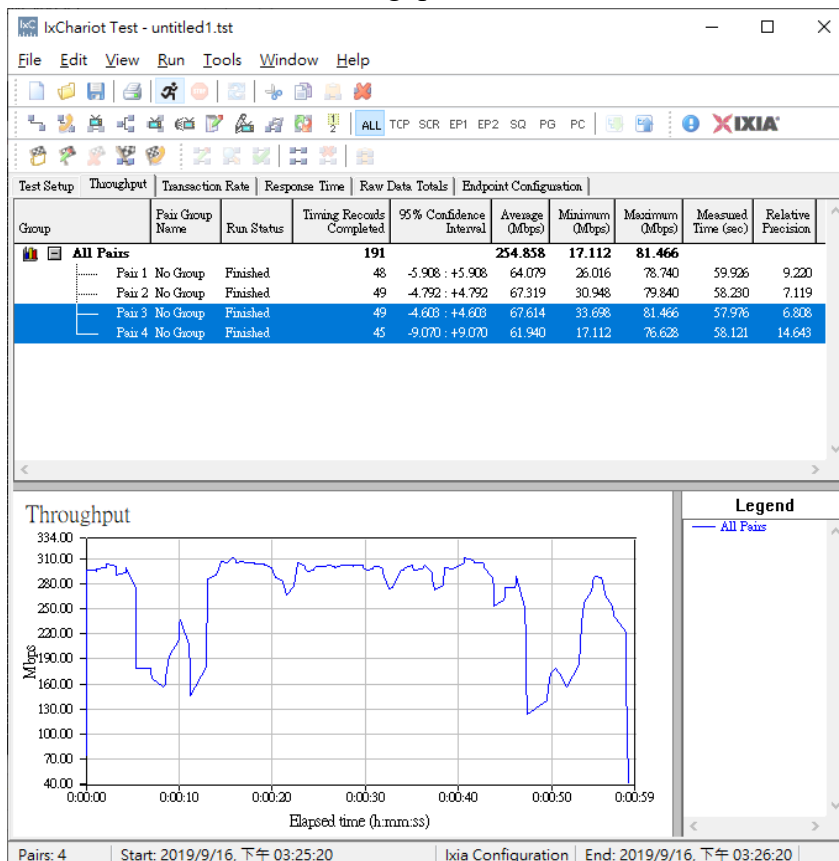
7. Throughput test

OW-400-A3 with ANT-12A

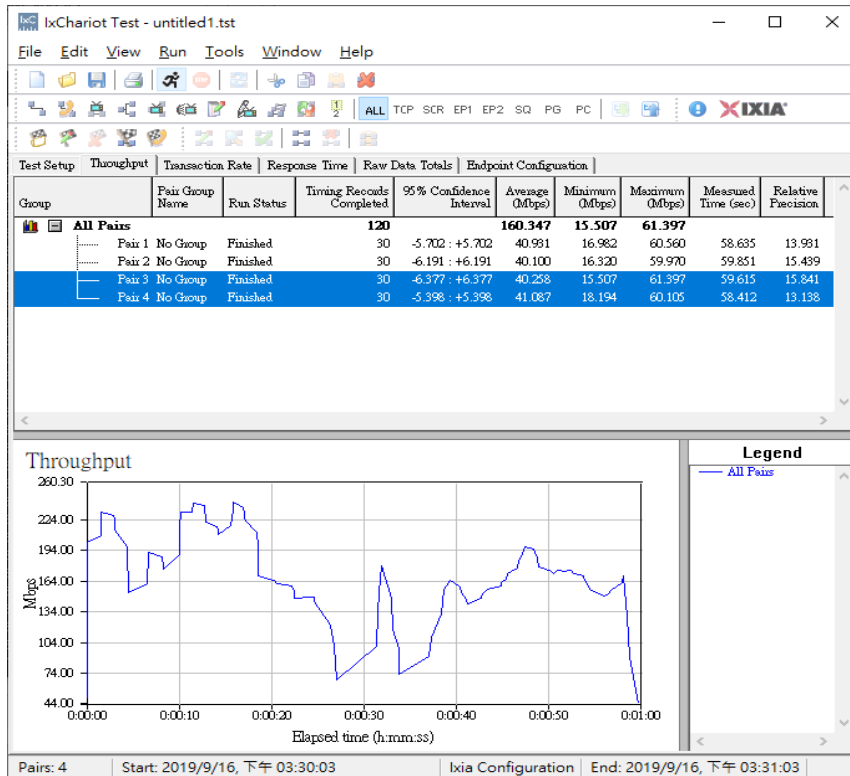
Band	Channel	Throughput
5G	100	254.858
	149	160.347
	161	181.054



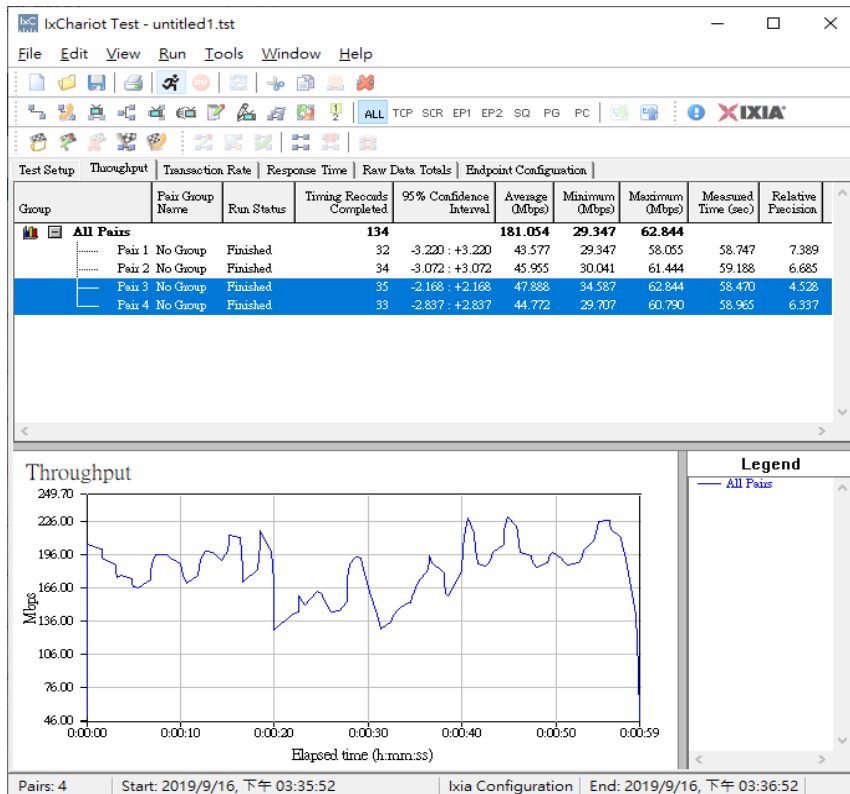
800M 5G Channel 100 Throughput test



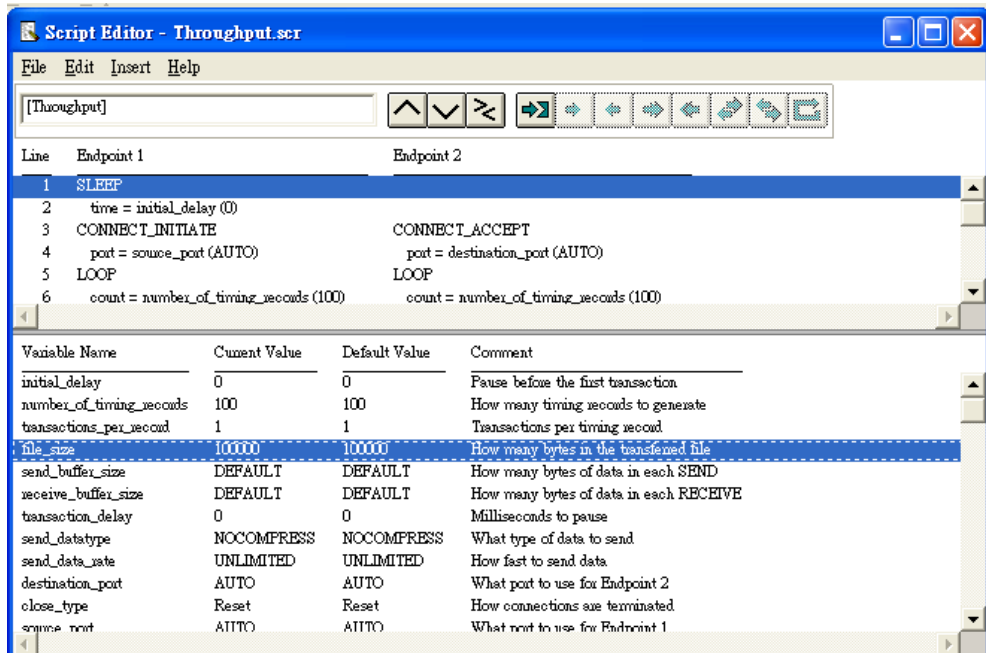
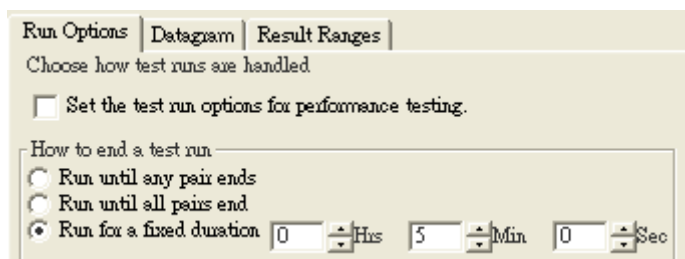
800M 5G Channel 149 Throughput test



800M 5G Channel 161 Throughput test



8. TEST Tools

TEST Equipment		
Notebook	HP Pavilion dv4 x2	
Power	350W x 2	
Tripod	3	
Antenna	ANT-12A 5GHZ Outdoor Omni 12dBi with Cables Antenna	
Test products	OW-400 A3 500mW	
TEST Software		
Chariot Version 6.7		
Run		

9. On-site status:

Location A:
XinDian High School





Location B:
XinDian Zhongshan 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 800M 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.