

## T e s t R e p o r t

**Report No** : L15308

**Client:** : Ruckus Wireless  
Hillview  
Wheeler End Common  
Wheeler End  
Buckinghamshire  
HP14 3NL

**Description** : P300 WW 11ac Outdoor Bridge (B1-B6), T300 WW 11ac  
Outdoor Bridge (A1-A5), T301 WW 11ac Outdoor Bridge (C1-  
C5), T301 WW 11ac Outdoor Bridge (D1-D5)

**Manufacturer** : Not Disclosed

**Type/Model** : 901-P300-WW01, 9S1-T300-WW01, 901-T301-WW51, 901-  
T301-WW61

**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 14.0 (17/12/2014)

**Date Testing Started** : 25/11/2015

**Conclusion** : Refer to body of report

**Date of Issue** : 04/12/2015

**Date of Expiry** : 03/12/2020

**Tested by:** M.ALI  
**Position:** Photometric Engineer



**Approved:** J.ADAMS  
**Position:** Laboratory Supervisor



## **INTRODUCTION**

Ruckus Wireless have supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	P300 WW 11ac Outdoor Bridge (B1-B6), T300 WW 11ac Outdoor Bridge (A1-A5), T301 WW 11ac Outdoor Bridge (C1-C5), T301 WW 11ac Outdoor Bridge (D1-D5)
Model No.	901-P300-WW01, 9S1-T300-WW01, 901-T301-WW51, 901-T301-WW61
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	180mm x 150mm x 80mm
Product Supply Requirement	240V AC 50/60Hz
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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## **RESULTS**

**Table 2. Wattage and VA results for T300 WW 11ac Outdoor Bridge (A1-A5)**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	3.04	3.02	3.07	3.09	3.06
220	3.07	3.05	3.09	3.09	3.07
230	3.09	3.08	3.11	3.14	3.10
240	3.09	3.11	3.13	3.19	3.19
250	3.83	3.79	3.92	3.04	3.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	7.76	7.80	7.79	7.88	7.88
220	8.00	8.05	8.03	8.16	8.17
230	8.35	8.39	8.37	8.63	8.61
240	8.44	8.57	8.49	8.97	9.03
250	10.43	10.47	10.58	8.91	9.14
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.39	0.39	0.39	0.39	0.39
220	0.38	0.38	0.38	0.38	0.38
230	0.37	0.37	0.37	0.36	0.36
240	0.37	0.36	0.37	0.36	0.35
250	0.37	0.36	0.37	0.34	0.34
Ambient Temperature During Test (°C)			25.5		
PF Leading/Lagging			Leading		

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**Table 3. Wattage and VA results for P300 WW 11ac Outdoor Bridge (B1-B6)**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	3.20	3.36	3.32	3.33	3.32
220	3.27	3.40	3.36	3.34	3.31
230	3.30	3.43	3.42	3.34	3.40
240	3.31	3.50	3.39	3.37	3.42
250	3.33	3.49	3.46	3.40	3.48
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	8.16	8.35	8.27	8.73	8.67
220	8.50	8.63	8.54	9.05	8.91
230	8.80	8.94	8.90	9.24	9.26
240	9.32	9.60	9.33	9.49	9.47
250	9.49	9.64	9.56	9.84	9.88
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.39	0.40	0.40	0.38	0.38
220	0.38	0.39	0.39	0.37	0.37
230	0.38	0.38	0.38	0.36	0.37
240	0.36	0.36	0.36	0.36	0.36
250	0.35	0.36	0.36	0.35	0.35
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 4. Wattage and VA results for T301 WW 11ac Outdoor Bridge (C1-C5)**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	3.26	3.17	3.22	3.18	3.18
220	3.26	3.26	3.20	3.19	3.17
230	3.26	3.15	3.22	3.21	3.15
240	3.35	3.30	3.30	3.23	3.22
250	3.29	3.23	3.31	3.19	3.28
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	8.20	8.08	8.06	8.22	8.24
220	8.29	8.33	8.13	8.34	8.35
230	8.52	8.40	8.40	8.68	8.64
240	9.03	9.01	8.89	9.05	9.12
250	9.23	9.21	9.21	9.24	9.49
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.40	0.39	0.40	0.39	0.39
220	0.39	0.39	0.39	0.38	0.38
230	0.38	0.38	0.38	0.37	0.36
240	0.37	0.37	0.37	0.36	0.35
250	0.36	0.35	0.36	0.35	0.35
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 5. Wattage and VA results for T301 WW 11ac Outdoor Bridge (D1-D5)**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	3.04	3.17	3.14	3.08	3.18
220	3.16	3.16	3.24	3.17	3.14
230	3.15	3.12	3.16	3.25	3.25
240	3.16	3.08	3.20	3.15	3.15
250	3.11	3.05	3.21	3.13	3.09
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	8.00	8.11	8.01	8.35	8.43
220	8.42	8.31	8.43	8.77	8.56
230	8.58	8.42	8.45	9.15	9.05
240	8.88	8.60	8.78	9.28	9.14
250	9.08	8.83	9.07	9.59	9.39
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.38	0.39	0.39	0.37	0.38
220	0.38	0.38	0.38	0.36	0.37
230	0.37	0.37	0.37	0.36	0.36
240	0.36	0.36	0.36	0.34	0.34
250	0.34	0.35	0.35	0.33	0.33
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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### **DEVIATION(S) FROM TEST STANDARD**

No reported deviations from test standard.

### **MEASUREMENT UNCERTAINTY**

The following expanded uncertainties apply to the measurements shown in the results;

True Power (W):  $\pm 0.69\%$ , Apparent Power (VA):  $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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## ILLUSTRATION



Figure 1. *Product image*

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