

The Candela IoT test is designed to measure the performance of the Access Point by using different types of IoT devices connected to an Alexa which is connected to an AP. We measure the latencies in performing specific tasks at every iteration and note the number of times a command is successfully executed and failed. The expected behaviour is for the AP to be able to handle several IoT devices (within the limitations of the AP specs) and make sure all devices can be controlled.

Overall Report Table

Device	Min. Latency (ms)	Avg. Latency (ms)	Max. Latency (ms)	No. of Iterations	Successful Iterations	Failed Iterations
fan.levoit_core300s_air_purifier	7001.15	22679.84	38358.52	2	2	0
switch.tapo_smart_plug2	382.18	2612.47	4842.75	2	2	0
switch.tapo_c210_cc74	995.76	1014.86	1033.96	2	2	0
switch.tapo_c210_b8f6	938.94	985.47	1032.01	2	2	0
switch.tapo_c210_cafe	875.09	944.2	1013.31	2	2	0
switch.tapo_c210_c3da	909.08	972.24	1035.41	2	2	0
switch.tapo_c210_c430	1027.57	1030.75	1033.92	2	2	0
switch.tapo_c210_cb57	1030.06	1867.06	2704.06	2	2	0
light.wiz_rgbw_tunable_c92250	20.04	20.54	21.04	2	2	0
light.wiz_rgbw_tunable_e2abcc	48.78	7216.42	14384.06	2	2	0
light.wiz_rgbw_tunable_e288d8	7.39	7.39	7.39	1	1	0
light.wiz_rgbw_tunable_d191ae	5.92	5.92	5.92	1	1	0
switch.zebronics_plug_2_socket_1	316.71	324.48	332.26	2	2	0
switch.wi_fi_smart_extension_socket_1	312.29	414.05	515.8	2	2	0
switch.wi_fi_smart_extension_socket_2	415.22	431.24	447.25	2	2	0
switch.wi_fi_smart_extension_socket_4	450.85	517.78	584.71	2	2	0
switch.wi_fi_smart_extension_socket_3	508.02	517.0	525.98	2	2	0
switch.zebronics_zeb_sp110_socket_1	375.29	422.86	470.43	2	2	0
switch.zebronics_zeb_sp110_4_socket_1	346.49	440.36	534.23	2	2	0
switch.smart_switch_2_switch_2	589.38	622.1	654.82	2	2	0
switch.smart_switch_2_switch_1	455.18	508.18	561.19	2	2	0
switch.smart_switch4_switch_2	325.64	415.1	504.57	2	2	0
switch.smart_switch_2_switch	534.61	560.86	587.11	2	2	0
switch.smart_switch4_switch_3	488.78	535.6	582.42	2	2	0
switch.smart_switch4_switch_4	418.11	552.58	687.05	2	2	0
switch.smart_switch4_switch	625.71	28196.97	55768.23	2	1	1
switch.smart_switch4_switch_1	936.29	12118.64	23301.0	2	0	2
light.wiz_rgbw_tunable_e291d4	14008.24	14008.24	14008.24	1	0	1

Input Parameters

The below table provides the input parameters for the test.

Testname	IoTDeviceTest_2025-08-21 11:41:22.105407
Device List	fan.levoit_core300s_air_purifier,switch.tapo_smart_plug2,switch.tapo_c210_cc74,switch.tapo_c210_b8f6,switch.tapo_c210_cafe,switch.tapo_c210_c3da,switch.tapo_c210_c430,switch.tapo
No. of devices	28
Iterations	2
Delay (seconds)	5

