



Reliability Laboratory



## TEST REPORT

Report No.: HCO0090/2014  
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Date: November 14, 2014

AAEON TECHNOLOGY INC.  
5F, NO. 135, LANE 235, PAO CHIAO RD.,  
HSIN-TIEN DIST., NEW TAIPEI CITY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: 7" Rugged Tablet Computer  
Style/ Item No.: RTC-700A/ No.1  
Manufacturer/Vendor: AAEON Technology Inc.  
Quantity: Total 1 piece  
Testing Period: Nov. 10, 2014 to Nov. 12, 2014

We have tested the submitted sample(s) as requested and the following results were obtained:

### Test Required:

Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.2: 2013)

IP Code	IP65
<b>First characteristic numeral</b>	Degrees of protection against access to hazardous parts and against solid foreign objects
<b>Second characteristic numeral</b>	Degrees of protection against ingress of water

### Test Results:

Conclusion
Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.2: 2013 Degrees of Protection Provided by Enclosures -- IP65 The detailed description of test result, please see attached sheet(s).

Signed for and on behalf of  
SGS TAIWAN Ltd.

*Hank Chiou*

Hank Chiou  
Asst. Supervisor

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Test for Degrees of Protection Provided by Enclosures:Test Equipment:

Name	Brand	Model	Serial No.
1.0 mm Test Wire Probe	E.D.&D.	TRP-02	B0050180
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723S	T-23-110708
IPX5 Water Jet Hose Nozzle Set	PTL	P03.26	5050565

Lab Environmental Conditions:Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$ Ambient humidity:  $(55 \pm 20) \% \text{RH}$ Test Method/ Specification:

Test method: IEC 60529 Edition 2.2: 2013--IP65

**1. Test for protection against access to hazardous parts:**

Test method: The test wire with 1.0 mm in diameter and 100 mm long is pushed against or inserted through any openings of the enclosure with designated force. Examine whether the test wire touches the hazardous live parts inside the enclosure or not.

Test force: 1 N $\pm$ 10 %**2. Test for protection against solid foreign objects:**Test method: Dust testSample condition: Non-OperatingType of dust: Talcum powderThe amount of dust: 2 kg per cubic meter of the chamber volumeThe maximum depression: <20 mbarTest duration: 8 hours

- Examine the protection against ingress of dust of specimen(s) and perform functional check after this test.
- Functional check: Turn on the power of specimen, then examine whether the booting function of specimen could be work normally or not.

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Test Method/ Specification--Continued:**3. Test for protection against water:**

Test means: Spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as specified in test standard.

Internal diameter

of the nozzle: 6.3 mm

Sample condition: Non-Operating

Delivery rate: 12.5 l/minute ±5%

Distance from nozzle

to enclosure surface: between 2.5 m and 3 m

Core of the substantial

stream: circle of approximately 40 mm diameter at 2.5 m distance from nozzle

Test duration: 3 minutes (Total 6 faces, each face 30 seconds)

- Examine the protection against ingress water of specimen(s) and perform functional check before and after this test.
- Functional check: Turn on the power of specimen, then examine whether the booting function of specimen could be work normally or not.

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## Specimen:

Style/ Item No.: RTC-700A/ No.1

Quantity: Total 1 piece

## Test Result:

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP6X)

A-1 Test for protection against access to hazardous parts (IP6X)

Test Result		
Check Item		Style/ Item No.
		RTC-700A/ No.1
1	Does the test wire penetrate any openings of the enclosure?	No
2	(followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts?	N/A
3	(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts?	N/A
Note 1: N/A means "Not Applicable".		
Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.		

A-2 Test for protection against solid foreign objects (IP6X)

Test Result		
Check Item		Style/ Item No.
		RTC-700A/ No.1
1	Does any dust deposit inside the enclosure?	No
2	Functional Check	Normal
Note 1: N/A means "Not Applicable".		
Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.		

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## Test Result--Continued:

### B. Degree of protection against ingress of water (IPX5)

Test Result		
Check Item		Style/ Item No.
		RTC-700A/ No.1
1	Does any water permeate into the specimen?	No
2	(followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts?	N/A
2.1	(followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety?	N/A
2.2	(followed check item 2.1) Does the water deposit on insulation parts where it could lead to tracking along the creep age distances?	N/A
2.3	(followed check item 2.2) Does the water reach live parts or windings not designed to operate when wet?	N/A
3	Functional Check	Normal
Note 1: N/A means "Not Applicable".		
Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.		

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### Test Photos:

	
1. Appearance of specimen:	2. Appearance of specimen:
	
3. Test for protection against solid foreign objects (Dust test)	4. Test for protection against water
	
5. Functional Check	

— — — The End of Test Report — — —

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