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April 13, 2012 Date:

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: Stainless Panel PC

Style/ Item No.: TF-AFP-6152HTT-A1-1010/ No.1

Manufacturer/ Vendor: AAEON Technology Inc.

**Country of Origin:** Taiwan Total 1 set Quantity:

Testing Period: Apr. 11, 2012 to Apr. 12, 2012

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

Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.1: 2001) Test Required:

<u>e</u>	,
IP Code	IP66
First characteristic numeral	Omitting
Second characteristic numeral	Degrees of protection against ingress of water

Test Results:

#### Conclusion

Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.1: 2001 Degrees of Protection Provided by Enclosures -- IP66 The detailed description of test result, please see attached sheet(s).

> Signed for and on behalf of SGS TAIWAN Ltd.

Winson Tseng Asst. Manager

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

#### Test Equipment:

Name	Brand	Model	Serial No.
Dust-proof Object Test Probe	ED&D	TRP-02	B0050180
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723C	T-23-050411
IPX6 Water Jet Hose Nozzle Set	PTL	P03.28	5040045

#### Lab Environmental Conditions:

Ambient temperature: 25±3°C

Relative humidity:  $55\pm20\%$ RH

# Test Method/ Specification:

Test method: IEC 60529 Edition 2.1: 2001--IP66

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

Test method: IEC 60529 Edition 2.1: 2001--IP6X

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 the force specified in

Table 6 in IEC 60529 Edition 2.1: 2001. 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: IEC 60529 Edition 2.1: 2001--IP6X (Dust test)

Type of dust: <u>Talcum powder</u>

The amount of dust:  $\frac{2 \text{ kg}}{1 \text{ m}^3}$ The chamber size:  $\frac{1 \text{ m}^3}{1 \text{ m}^3}$ The maximum depression:  $\frac{20 \text{ mbar}}{1 \text{ max}}$ Test duration:  $\frac{8 \text{ hours}}{1 \text{ max}}$ 

• Examine the protection against ingress of dust of specimen(s) after this test.

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# Test Method/ Specification--Continued:

#### 3. Test for protection against water:

Test method: IEC 60529 Edition 2.1: 2001--IPX6

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: 12.5 mm

Delivery rate:  $100 \ell/\min \pm 5\%$ 

Distance from nozzle

to enclosure surface: between 2.5 m and 3 m

Core of the substantial

stream: circle of approximately 120 mm diameter at 2.5 m distance from nozzle

Test duration: 3 minutes (Total 2 faces, each face 1.5 minutes)

Examine the protection against ingress water of specimen(s) after this test.

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Specimen:

Style/ Item No.: TF-AFP-6152HTT-A1-1010/ No.1

Quantity: Total 1 set

### 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.		
		TF-AFP-6152HTT-A1-1010/ 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?			
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 2.1: 2001 and in accordance with the acceptance conditions specified by client.

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

Test Result		
	Style/ Item No.	
Check Item	TF-AFP-6152HTT-A1-1010/ No.1	
1 Does any dust deposit inside the enclosure?	No	

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 2.1: 2001 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 (IPX6)

	Test Result		
Check Item		Style/ Item No.	
		TF-AFP-6152HTT-A1-1010/ 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 creepage 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	

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 2.1: 2001 and in accordance with the acceptance conditions specified by client.

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**Test Photos:** 



Appearance of specimen



Appearance of specimen



Test for protection against access to hazardous parts



Test for protection against access to hazardous parts



Test for protection against solid foreign objects (Dust test)



Test for protection against solid foreign objects (Dust test)

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Test Photos--Continued:



Test for protection against water (Front face)



Test for protection against water (Back face)

**The End of Test Report** 

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