

Reliability Laboratory

TEST REPORT

 Report No.:
 HC30077/2014

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 Date:
 March 24, 2014

GETAC TECHNOLOGY CORP. 5F, BUILDING A, NO. 209, SEC. 1, NANGANG RD., NANGANG DIST., TAIPEI CITY, TAIWAN, R.O.C.

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

Fully Rugged Tablet
T800/ No.1, No.2
Total 2 pieces
Mar. 19, 2014 to Mar. 21, 2013

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 2.1: 2001)

IP Code	IP65
HIRST Characteristic numeral	Degrees of protection against access to hazardous
First characteristic numeral	parts and against solid foreign objects
Second characteristic numeral	Degrees of protection against ingress of water

Test Results:

ConclusionSubmittals sample(s) comply with the requirement and acceptance conditions of IEC60529 Edition 2.1: 2001 Degrees of Protection Provided by Enclosures -- IP65The 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.
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 Nozz	le Set	PTL	P03.26	5050565
Lab Environmental Cond				
Ambient temperature:	<u>(25 ± 3)</u>	<u>°C</u>		
Ambient humidity:	<u>(55 ± 20</u>)) % RH		
Test Method/ Specification	<u>on:</u>			
Test method:	IEC 60529	edition 2.1: 2001IP	<u>65</u>	
1. Test for protection a	against acces	s to hazardous parts:		
Test method:	The test w	ire with 1.0 mm in dia	meter and 100 mm lor	ng is pushed agains
	or inserted	l through any openings	of the enclosure with	designated force.
	Examine w	whether the test wire to	uches the hazardous l	ive parts inside the
	enclosure	or not.		
Test force:	<u>1 N±10 %</u>			
2. Test for protection a				
Sample condition:	Non-Operation	ating		
Type of dust:	Talcum po	<u>wder</u>		
The amount of dust:	<u>6.75 kg</u>			
The chamber size:	<u>3.375 m³</u>			
The maximum depression	on: <u>-20 mbar</u>			
Test duration:	8 hours			

- Examine the protection against ingress of dust of specimen(s) and perform functional check after this test.
- Functional check: 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: Sample condition: Operating (Power on) Internal diameter of the nozzle: 6.3 mm 12.5 *ℓ*/minute ±5% Delivery rate: 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: Total 3 minutes (total: 6 faces, each face 30 seconds)

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

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Style/ Item No .:

<u>T800/ No.1, No.2</u> Total 2 pieces

Test Result:

Quantity:

Specimen:

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)

Check Item	Style/ Item No.
	T800/ No.1
1 Does the test wire penetrate any openings of the enclosure?	No
(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 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)

	Style/ Item No.
Check Item	T800/ No.1
1 Does any dust deposit inside the enclosure?	No
2 Functional Check	Normal

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 (IPX5)

Check Item 1 Does any water permeate into the specimen? 2 (followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts? 2.1 (followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety? 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?	
1 Does any water permeate into the specimen? 2 (followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts? 2.1 (followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety? 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?	Style/ Item No.
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 ² accumulate near the cable end or live parts? 2.1 (followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety? (followed check item 2.1) Does the water deposit on insulation parts where it could lead to tracking along the creep age distances? 	No
 ^{2.1} with the correct operation of the equipment or impair safety? (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
2.2 parts where it could lead to tracking along the creep age distances?	N/A
	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 2.1: 2001 and in accordance with the acceptance conditions specified by client.

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