

Test Report

Verified code:020328

Report No.:H201812253096-02EN

Customer: Fujian Newland Auto-ID Tech. CO., Ltd.

Address: Newland Science & Technolgy Park, No. 1 Rujiang West Rd. Mawei, Fuzhou, P. R. China

Sample description: TD-LTE Wireless data terminal

Sample model: NLS-NFT10

Reference document: IEC 60529-2013 DEGREES OF PROTECTION PROVIDED BY ENCLOSURES(IP Code) No. H201812253096 testing service orders

Receive sample date: 2019-01-16

Test date: 2019-01-22~2019-01-23

Test result: Meet the requirement

Tested LiYunLiang Inspected ZhangYingzi Approved BobChen

(Engineer) Li Yun liang (Deputy Director) Zhang Yingzi (Deputy Manager) [Signature]

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2019/2/12

APPROVED(04)

The report is just responsible for the tested sample; The report is not valid without our stamp. The report must not be partially duplicated without our written approval. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Address: 163 Pingyun Rd., West of Huangpu Ave., Guangzhou (510656)

Tel: (+86) -020-38699960 FAX: (+86) -020-38698685 Web: <http://www.grgtest.com>



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Test type	<input checked="" type="checkbox"/> Commissioning test <input type="checkbox"/> Routine test <input type="checkbox"/> Approval test <input type="checkbox"/> Type test		
Sample source	<input checked="" type="checkbox"/> Commissioned units send sample <input type="checkbox"/> Sampling		
Sample	Model	Quantity	Test No.
TD-LTE Wireless data terminal	NLS-NFT10	4	H201812253096-0007~ H201812253096-0010
Appearance of sample	Shape: <input checked="" type="checkbox"/> Square <input type="checkbox"/> Round <input type="checkbox"/> Irregular <input type="checkbox"/> Others _____ Color: <input checked="" type="checkbox"/> Monochrome <input type="checkbox"/> Multicolor _____ <input type="checkbox"/> Others _____ Type: <input type="checkbox"/> Mini <input checked="" type="checkbox"/> Small <input type="checkbox"/> Small and medium <input type="checkbox"/> Medium <input type="checkbox"/> Large		
Sample components and accessories	Components: / Accessories: /		
Packing status	<input checked="" type="checkbox"/> Outer Packing _____ <input type="checkbox"/> No packing		
Sample quality before test	<input checked="" type="checkbox"/> Conformity product <input type="checkbox"/> Non-conformity product <input type="checkbox"/> Prototype <input type="checkbox"/> Others		
Abnormal condition of sample before test	/		
Environment condition	Temperature: (20~25) °C Relative humidity: (32~37) %		
Test address	163 Pingyun Rd., West of Huangpu Ave., Guangzhou		

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1. IPX7 Test

1.1 Test condition

1.1.1 Reference standard: IEC-60529-2013.

1.1.2 Immersion depth: 1m.

1.1.3 Test time: 30min.

1.2 Sample quantity

Samples information refers to table 1-1.

Table 1-1 Samples information

Sample	Model	Quantity	Test No.
TD-LTE Wireless data terminal	NLS-NFT10	2	H201812253096-0005, H201812253096-0006

1.3 Test requirements

After IPX7 test, no water should enter the EUT.

1.4 Test result

1.4.1 After IPX7 test, no water enter the EUT.

1.4.2 The EUT passed the IPX7 test.

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1.5 Test photos

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FIG. 1-1 Pre-test appearance inspection
H201812253096-0007



FIG. 1-2 After test appearance inspection
H201812253096-0007



FIG. 1-3 Pre-test appearance inspection
H201812253096-0008



FIG. 1-4 After test appearance inspection
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FIG. 1-5 Installation diagram



FIG. 1-6 Internal inspection

2. IP6X Test

2.1 Test condition

- 2.1.1 Reference standard: IEC-60529-2013.
- 2.1.2 Dust type: talcum powder.
- 2.1.3 Dust concentration: 2kg /m³.
- 2.1.4 Dust blowing method: continuous blowing dust.
- 2.1.5 Maximum pressure difference: 2kPa.
- 2.1.6 Gas extraction: 80 times the volume of the casing.
- 2.1.7 Pumping speed: greater than 40 times per hour, shell volume.
- 2.1.8 Test time: 2h.

2.2 Sample quantity

Samples information refers to table 2-1.

Table 2-1 Samples information

Sample	Model	Quantity	Test No.
TD-LTE Wireless data terminal	NLS-NFT10	2	H201812253096-0009, H201812253096-0010

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2.3 Test requirements

After IP6X test, the EUT should be dust-free into the interior.

2.4 Test result

2.4.1 No dust inside the EUT.

2.4.2 The EUT passed the IP6X Test.

2.5 Test photos



FIG. 2-1 Pre-test appearance inspection
H201812253096-0009



FIG. 2-2 After test appearance inspection
H201812253096-0009



FIG. 2-3 Pre-test appearance inspection
H201812253096-0010



FIG. 2-4 After test appearance inspection
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FIG. 2-5 Installation diagram



FIG. 2-6 internal inspection

2. Test equipments

No.	Equipment	Serial No.	Due date	Testing item
1	Sand and dust test chamber	180258	2019-04-10	IP6X
2	Water storage tank	886474	2019-08-28	IPX7
3	Steel rule	882505	2019-05-17	With test equipment

-----End of Report-----