



TEST REPORT

Report No.: SZRL04024B/2009

Page: 1 of 7

Date: Apr. 28, 2009

SONIM TECHNOLOGIES INC.

1875 S. GRANT STREET, SUITE 620

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description: XP3.20
Item/Type: N/A
Manufacturer: N/A
Buyer: N/A
Quantity: Total 2 PCS

We tested the sample(s) according to the requirement(s) from client; the following results were obtained:

Test Requested: 1. Dust test (IP6X)
2. Temporary immersion test (IPX7)
Test Method: According to IEC 60529: 2001, IP6X. IPX7
For further details, please refer to the following page(s)
Test Result(s): For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Ltd.

Reliability Lab

Declaration:

1. This report is only preliminary version without authorized signature and badge.
2. It is only for client's confirming the basic information in the report but not including test data and result.
3. Any behavior to make bold to modify or print without permission of SGS is unwarrantable and invalid.
4. The data and results in the report only serve for the submitted test samples.

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 2 of 7

Date: Apr. 28, 2009

1. Dust test (IP6X):

1.1. Test Purpose, Standard/ Specification or Clients' Requirement:

a) Test Purpose:

This test is mainly to detect the protection effect provided by the enclosures of electrical equipment.

b) Test Standard:

This test is performed according to IEC 60529: 2001, IP6X: under pressure

Test condition:

Test Dust: 2kg/m³ chamber volume and be kept in suspension during the test

Maximum depression: 2kPa

Test Duration: 8 hours

c) Result acceptance condition in this standard:

The protection is satisfactory if no deposition of dust is observable inside the enclosure at the end of the test.

d) Appendix: Degree of protection provided by enclosures (IP code)

IP code	IP 6X
First characteristic numeral	Dust-protected
Second characteristic numeral	Characteristic numeral is not specified

1.2. Sample(s) Inspection before Test:

Sample(s) Description: XP3.20

Quantity: 1 PCS

Sample information:

Original Design Information	Design Name	XP3.20
	Model Name	Sonim XP3.20-E Quest (P22C001AA)
Variant Design Information	Design Name	XP3.20
	Model Name	Sonim XP3.20-A Quest (P23C001AA)
		Land Rover S1-E by Sonim (P22C001AA) Land Rover S1-A by Sonim (P23C001AA)

Note: It was declared by the client Sonim that: The variant Design(s) is (are) identical in both design and implementation and differs only by non-functional characteristics to the original design. Please refer to this table for the samples whose name was XP3.20 in the following part.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 3 of 7

Date: Apr. 28, 2009

Appearance Inspection: No damage was found on samples before test.

Function Inspection: The function of sample was normal before test.

Photo(s) before Test:



Fig.1 Appearance of sample before test-obverse



Fig.2 Appearance of sample before test-inverse

1.3. Test Procedure:

Test Equipment:

Name	Equipment No.	Due Date
Dust test chamber	SC-010	Jan, 15, 2010

Lab Environmental Conditions:

Ambient Temperature: 25±3℃

Relative Humidity: 55±20%RH

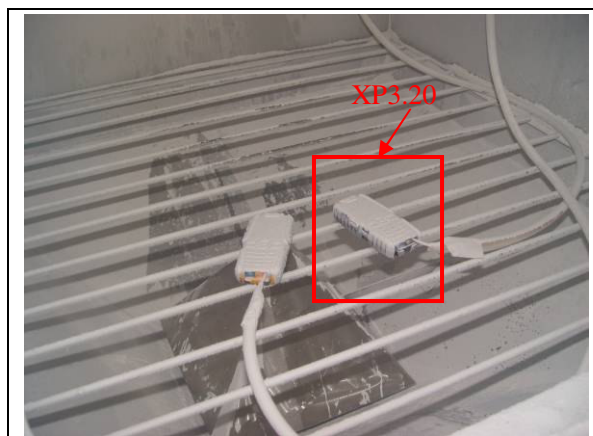


Fig.3 Samples in Test chamber

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 4 of 7

Date: Apr. 28, 2009

1.4. Test Result(s): Satisfied

Inspection after test: No dust was found inside the sample after dust test.

Function inspection: The function of sample was normal after test.

Photo(s) after Test:



Fig.4 Sample XP3.20 after Test

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 5 of 7

Date: Apr. 28, 2009

2. Temporary immersion test (IPX7)

2.1 Test Purpose, Standard/ Specification or Clients' Requirement:

a) Test Purpose:

This test is mainly to detect the protection effect provided by the enclosures of electrical equipment.

b) Test Standard:

This test is performed according to IEC 60529: 2001, IPX7.

Result acceptance condition in this standard

If any water has entered, it shall not:

- Be sufficient to interfere with the correct operation of the equipment or impair safety;
- Deposit on insulation parts where it could lead to tracking along the creepage distances;
- Reach live parts or windings not designed to operate when wet;
- Accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

c) Test condition:

Water-level on the lowest point of enclosure: 1000mm below the surface of the water

Duration of test: 30mins

Appendix: Degree of protection provided by enclosures (IP code)

IP code	IP X7
First characteristic numeral	Characteristic numeral is not specified
Second characteristic numeral	Temporary immersion

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 6 of 7

Date: Apr. 28, 2009

2.2 Sample(s) Inspection before Test:

Sample(s) Description: XP3.20

Quantity: 1 PCS

Sample information:

Original Design Information	Design Name	XP3.20
	Model Name	Sonim XP3.20-E Quest (P22C001AA)
Variant Design Information	Design Name	XP3.20
	Model Name	Sonim XP3.S1-E Quest (P23C001AA)
		Land Rover S1-E by Sonim (P22C001AA) Land Rover S1-A by Sonim (P23C001AA)

Note: It was declared by the client Sonim that: The variant Design(s) is (are) identical in both design and implementation and differs only by non-functional characteristics to the original design.

Function Check before Test: Normal.

Photo(s) of Sample(s) Before Test:



2.3. Test Procedure:

Test Equipment:

Name	Model	Due Date
Degree of protect against water equipment	T041101-01	Jul, 03, 2009

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

TEST REPORT

Report No.: SZRL04024B/2009

Page: 7 of 7

Date: Apr. 28, 2009

Lab Environmental Conditions:

Ambient Temperature: $25\pm 3^{\circ}\text{C}$

Relative Humidity: $55\pm 20\%RH$

Photo(s) during Test:



Fig.6 Test equipment

2.4. Test Result(s): Satisfied

Appearance Inspection: No water was found in the sample after test.

Function Inspection: The function was normal after test.

Photo(s) of Sample(s) after Test:



Fig.7 Sample After Test

End of Report

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.