



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CSAE 24.0066X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-06-17

Applicant: **Shenzhen Tianlong Century Technology Development Co. Ltd.**
3F, 5F, Industrial Building
No 1 Quanyiyuan Industrial Zone
Tongsheng Community, Dalang Street
Longhua District
Shenzhen Guangdong
China

Equipment: **Explosion proof handheld terminal/ ioutdoor L503 Ex**

Optional accessory:

Type of Protection: **Intrinsic Safety 'i'**

Marking: Ex ic IIC T4 Gc
Ex ic IIIC T100°C Dc

-20°C ≤ Tamb ≤ +55°C

IP65

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Shenzhen Tianlong Century Technology Development Co. Ltd.**
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China

Manufacturing locations: **Shenzhen Tianlong Century Technology Development Co. Ltd.**
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CSAE/ExTR25.0045/00](#)

Quality Assessment Report:

[GB/CSAE/QAR25.0010/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The ioutdoor L503 Ex explosion proof handheld terminal is a portable communication device. It is powered by an internally fitted user-replaceable Li-Ion battery, whose rating is 3.80Vdc/4600mAh. The product consists of a touch display, cameras, speakers and microphones, earphones, divergent LED flashlight, SIM and TF card connectors and communication interfaces for Wi-Fi, Bluetooth, GPS, DMR, NFC, and 4G networks.

The enclosure is constructed from PC, with a toughened glass window. On the side of enclosure, it is fitted with five function keys and on the top of enclosure is fitted with one encoder to operate the product. The equipment has an antenna port for connection to a passive antenna. There is a port for connection to a headset and a type-c interface for data communication in the non-hazardous area only.

The equipment has been tested in accordance with the test of enclosure section of EN/IEC 60079-0 and meets the requirements of IP65.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Explosion proof handheld terminal shall only be charged via the charge interface in safe area using a charger approved as SELV or Class 2 equipment against EN/IEC 62368 or an equivalent EN/IEC standard.
2. The maximum voltage and current from the charger U_m and I_m shall not exceed 5.0 Vdc and 2.0A respectively. The ambient temperature during charging shall be in the range +5°C to +45°C.
3. Any Data download devices via the type-c interface shall be approved as SELV or Class 2 equipment against EN/IEC 62368 or an equivalent EN/IEC standard. The maximum voltage U_m from the device shall not exceed 5.5 Vdc.
4. Only a passive headset could be connected via the headset port in the non-hazardous area.
5. While in the non-hazardous area, a SIM/TF card may be inserted or removed.
6. When used in hazardous location, the rubber plug of the headset and type-c interface must be properly installed. The device cannot be connected with any accessories such as a headset in hazardous location.
7. The equipment shall only be used in locations where there is a low risk of mechanical impact.
8. Only a passive Antenna could be connected via the Antenna port.



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Equipment (continued):

Conditions of Manufacture

The Manufacturer shall comply with the following:

1. The charger (DC charger) supplied with the explosion proof handheld terminal ioutdoor L503 Ex shall be approved as SELV equipment complying with the EN/IEC 62368, or a technically equivalent standard. The maximum charging voltage shall not exceed $U_m = 5.0V_{dc}$, and the maximum charging current shall not exceed $I_m = 2.0A$.