



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 24ATEX1144X** Issue: **0**

4 Equipment: **Intrinsic Safety Intelligent Terminal/ A10ST**

5 Applicant: **Shenzhen Chenxiang Intelligent Technology Co., Ltd.**

6 Address: 401, No. 99-9 Dayang Road
Rentian Community
Fuhai Street
Bao'an District
Shenzhen City
518103
China.

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3GD
Ex ic IIC T4 Gc
Ex ic IIIC T135°C Dc
-20°C ≤ Tamb ≤ +55°C
IP65

Signed:

Michelle Halliwell

Title: Senior Director of Operations

Project Number 80211063

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

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Issue 0

13 DESCRIPTION OF EQUIPMENT

The A10ST Intrinsic Safety Intelligent Terminal is a portable communication device featuring a touch display, cameras, speakers and microphones, headset, divergent LED flashlight, SIM and TF card connectors and communication interfaces for type-c, Wi-Fi, Bluetooth, GPS, NFC and 4G networks. It is powered by an internally fitted not user-replaceable Li-Ion battery, whose rating is 3.80Vdc/10000mAh.

The enclosure is constructed from PC covered by silicone rubber, with a toughened glass window. On the side of enclosure it is fitted with five function keys to operate the product. The equipment is only allowed to be charged outside of hazardous location, the maximum charging parameters are $U_m = 5.0V$, $I_m = 3.0A$.

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

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	19 March 2025	R80211062A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The Intrinsic Safety Intelligent 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.
- 15.2 The maximum voltage and current from the charger U_m and I_m shall not exceed 5.0 Vdc and 3.0A respectively. The ambient temperature during charging shall be in the range 0°C to +45°C.
- 15.3 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
- 15.4 Only a passive headset could be connected via the headset port in the non-hazardous area.
- 15.5 While in the non-hazardous area, a SIM/TF card may be inserted or removed.
- 15.6 When used in hazardous location, the rubber plug of the headset, charge interface and type-c interface must be properly installed. The device cannot be connected with any accessories such as a headset in hazardous location.
- 15.7 The equipment shall only be used in locations where there is a low risk of mechanical impact.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The adapter (for DC charger) supplied with the intrinsic safety intelligent terminal A10ST 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 $I_m = 3.0A$.

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Certificate Annexe



Certificate Number: CSANe 24ATEX1144X

Equipment: Intrinsic Safety Intelligent Terminal/ A10ST

Applicant: Shenzhen Chenxiang Intelligent Technology Co., Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
A10ST-000	1 of 1	V1.0	13 Jan 25	General assembly drawing
A10ST-000-019	1 of 1	V1.0	13 Jan 25	Nameplate
A10ST-000-022	1 of 1	V1.0	13 Jan 25	SN label
A10ST-000-001	1 of 1	V1.0	13 Jan 25	LCD module
A10ST-000-007	1 of 1	V1.0	13 Jan 25	Waterproof rubber plug
A10ST-000-011	1 of 1	V1.0	13 Jan 25	Middle Frame
A10ST-000-012	1 of 1	V1.0	13 Jan 25	Bottom shell
A10ST-000-016	1 of 1	V1.0	13 Jan 25	Back camera lens
A10ST-000-017	1 of 1	V1.0	13 Jan 25	Scanner lens
A10ST-000-021	1 of 1	V1.0	13 Jan 25	Main sealing ring
A10ST-SCH-MB	1 to 28	V1.0	13 Jan 25	Schematic of Main Board
A10ST-PCB-MB	1 to 10	V1.1	13 Jan 25	Layout of Main board
A10ST-BOM-MB	1 to 7	V1.0	13 Jan 25	BOM of Main board
A10ST-SCH-SUB	1 to 5	V40	13 Jan 25	Schematic of SUB board
A10ST-PCB-SUB	1 to 5	V40	13 Jan 25	Layout of SUB board
A10ST-BOM-SUB	1 to 2	V40	13 Jan 25	BOM of SUB board

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