

Ex M8 Intrinsically Safe phone Datasheet



Datasheet

INTRINSICALLY SAFE 5G SMARTPHONE



5G Network



Android 13 GMS



6.58 Inch



8GB+256GB



2D Barcode Scanner



ATEX & IECEX Certification



THE EX-M8 is a 6-inch 5G Explosion-Proof Phone designed for extreme environments like the oil and gas industry, featuring **ATEX & IECEX certifications** for safe use in hazardous areas.

It comes with **fingerprint** recognition, **NFC**, **RTK**, **RFID**, and a **1D/2D scanner (SE 4710)**, providing a secure and efficient solution for operations in challenging conditions.

Ex M8

Technical Specifications

Datasheet



Core Platform

Product Features	Ex M8 Intrinsic Safety Smartphone
Operating System	Android 13 GMS
Chipset	MT6833 Octa Core @2.2GHz64bit 5G Chipset
Network Band	GSM/GPRS: B2/3/5 WCDMA: B2/4/5 LTE: B2/ 4/ 5/ 7/ 12/ 17/ 41/48 5GNR:N2/4/5/7/12/17/25/28/40/41/48/77/78

LTE service	5G Network
Memory	8GB+256GB TF Card UP to 2TB
WiFi	wifi 802.11 a/b/g/n/ac 2.4G/5.8

Display	
Display Size	6.583inch IPS FHD (1080*2408)
Resolution	FHD+ 2408*1080Pix
Touch	Multi-touch support Gloved hand/Wet finger operation

Connectivity	
Bluetooth	BT5.1 with BLE
SIM Card	Nano SIM/Micro SIM,T-Flash card
GPS	GPS, GLONASS, BeiDou
Sensor	G-sensor,Proximity Sensor,Gyro/E- compass, Barometric sensor
FM Radio	Support
NFC	Support 13.56mhz

Multimedia	
Front camera	32MP Camera
Rear camera	Rear 64MP Main Camera 2MP Micro &13MP Night Vision (1 of 2) 5MP Thermal imaging(Optional)
FM Radio	Support
Video	64MP @ 30fps
Speaker	Size 3040 box waterproof,dual front-facing loud speakers, output 100dB+(power 2W)
Mic	2 Mic solution with noise cancellation

Physical Characteristics

Size	183.1*83.2*23mm
Weight	475g
Color	Black color

Dedicated Keys	Power On/Off, PTT Key, POC Key Programmable Key, Volume Keys.
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Ports	.
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Battery	
Capacity	8800mAh Ex proof Removable battery
Charging	Type-C USB 2.0
Working time	24-30hrs
Standby time	800-1000hrs

PTT	support POC solution
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OTG	Support
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Environment	
Working Temperature	-20 °C ≤ Ta ≤ +55 °C
Storage Temperature	-40 °C ≤ Ta ≤ +70 °C

Protection Rating	SGS IP68 & Military MIL-STD-810G
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Inbox Accessories	Wall Charger, USB-C Cable, Desktop charger, Certification paper
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Optional	
2D Barcode Engine	SE 4710/Optional

Ex M8 Exproof certification



1 TYPE EXAMINATION CERTIFICATE

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

3 Certificate Number: CSANe 24ATEX1127X Issue: 0

4 Equipment: 5G digital mobile phone Model: A2362(M8)

5 Applicant: Shenzhen AORO Communication Equipment Co., Ltd.

6 Address: Room 601, Unit 2, Building 2
Hongchuang Science and Technology Center
Xikeng Community, Fucheng Street
Longhua District
Shenzhen City
Guangdong Province
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
IP65

Signed:

M Halliwell
Title: Director of Operations

Project Number: 80177188

This certificate and its schedule may only be reproduced in its entirety and without change
CSA Group Netherlands B.V., Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

Q0-1974 Issue Date: 2024-06-21 (Replaces 2022-04-14)

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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 CSA 24.0026X

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Certificate history:

Status: Current

Issue No: 0

Date of Issue: 2024-10-10

Applicant: Shenzhen AORO Communication Equipment Co., Ltd.
Room 601, Unit 2, Building 2
Hongchuang Science and Technology Center
Xikeng Community, Fucheng Street
Longhua District
Shenzhen City, Guangdong Province
China

Equipment: 5G digital mobile phone Model: A2362(M8)

Optional accessory:

Type of Protection: Intrinsic Safety 'ic'

Marking: Ex ic IIC T4 Gc
Ex ic IIIC T135°C Dc
IP65

Approved for Issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations, Toronto

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 the QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
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