

## **Dorland Industrial Intrinsically Safe Smartphone EX\_08 PRO**

Developed by Dorland System Control Technology Co. Ltd., the industrial Intrinsically Safe Smartphone Ex\_08 PRO adopts advanced technology with intrinsically safe circuit, 6.56" touch screen and 8MP (Front Camera) & 50MP+0.3MP\*2 (Rear Camera). Its waterproof and dustproof performance can meet the international IP68 standards. NFC function meets read-write needs on any occasion. In addition, built-in Beidou+Galileo+Glonass+GPS and other functions are suitable for outdoor construction and pipeline inspection. It can also cooperate with OA office system, checking positioning system and data acquisition system etc. This model is especially suitably used in dangerous environment such as petroleum, chemical, pharmaceutical, oil depot, tank farm as well as the dangerous sites with combustible and explosive gas. It is convenient for users' timely production dispatching and communication.

IP Grade: IP68

Ex-marking: Ex ib IIC T4 Gb / Ex ibD 21 T130°C

Certificate no.: CCRI 21.2840

OS: Android 14.0

Screen: 6.56 inches IPS Water droplet screen

Memory: 6GB+256GB (RAM expansion 6GB/8GB/10GB with three levels of overclocking)

Platform: T606 8-cores T606 2\*A75@1.6GHz + 6\*A55 1.6GHz

Camera: 50MP+0.3MP\*2 (Rear)

8MP (Front)

Battery: 8500mAh

Frequency: Full network frequency band

GSM: B2/3/5/8

WCDMA: B1/2/4/5/8

TDD: B34/38/39/40/41

FDD: B1/2/3/4/5/7/8/18/19/20/25/26/28AB/66

EDGE/GPRS: support

Size: 172.7\*80\*10.7mm

WIFI: Support 2.4G/5G (802.11ac/a/b/g/n)

USB interface: Type C

Certificate parameters		Description
Certificate parameters	Ex-marking	Ex ib IIC T4 Gb / Ex ibD 21 T130℃
	Certificate No.	CCRI 21.2840
	IP Grade	IP68
Product overview		Description
Product overview	Unit weight	240g (including battery)
	Dimensions	172.7*80*10.7mm
	Operating system	Android 14.0
Hardware configuration		Description
CPU	Model	T606
	Feature	8-cores T606 2 x A75@1.6GHz + 6xA55 1.6GHz
	Framework	Mali G57 1core
	Technology	12nm
GPU	GPU model	Mali-G57 GPU
Video	Video encode	FHD 60fps H.263/264/265/VP8/VP9
	Video decode	FHD 60fps H.263/264/265/VP8/VP9
Network	Network	GSM/WCDMA/FDD/TDD
	Frequency	Full network frequency band GSM:B2/3/5/8 WCDMA: B1/2/4/5/8 TDD:B34/38/39/40/41 FDD:B1/2/3/4/5/7/8/18/19/20/25/26/28AB/66
	EDGE/GPRS	Support
Storage	memory	6GB+256GB (RAM expansion 6GB/8GB/10GB with three levels of overclocking ) LPDDR4X + UFS
	SIM card type	SUPPORT Nano SIM+Nano SIM+TF card
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
Front Camera	Front Camera 8MP	
Rear Camera	Rear Camera 50MP+0.3MP*2	
	Sensor	Omnivision OV50C40
Display	Size & technology	6.56 IPS Water droplet screen 90Hz
	Screen color	16.7M
	Type	in-cell

	resolving power	720*1612 HD+
	Pixel density	269
	Screen aspect ratio	20:9
	Screen-to-body ratio	90%
	Brightness	400cd/m²
	Screen contrast	1500:1
Transmission function	Navigation	Support ( Beidou, Galileo, Glonass, GPS )
	WIFI	Support 2.4G/5G ( 802.11ac/a/b/g/n )
	Bluetooth	Support BT5.0
	FM	Support
	OTG	Support (Don't support reverse charging)
	NFC	Support
Sensor	G-sensor	Support
	Proximity sensor	Support
	Ambient light sensor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support
Physical buttons	Power button	Support
	Volume button	Support
	Custom key function	Support (After selecting the corresponding custom function in the settings, click and long press to achieve the function)
Virtual buttons	Home button home	Support
	Menu button	Support
	Return button	Support
Electric acoustic devices	Speaker	1217 speaker BOX, single speaker
	Motor	1027 Flat Motor
	Receiver	0809 shrapnel earpiece
	Mic	Single MIC
	Notify light	Support
Port	Headphone port	TYPE-C to 3.5mm headphone jack interface

	Charger interface	Type-c
Battery	Capacity	8500mAh
	Voltage	3.8V
	Working hours	96h
	Standby duration	648h
	Talk time	39h
Software function		Description
System function	System navigation	Gesture navigation、3-button navigation
	Smart gesture	Support / Support gestures subject to actual conditions, this feature is turned off by default
	FOTA upgrade OTA	Support



  
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中国认可  
检测  
TESTING  
CNAS L0738

# CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 21.2840

**Company:** Beijing Dorland System Control Tech Co., Ltd.  
**Address:** Room 807, Yingu Plaza, North 4th Ring West Road, Haidian District, Beijing 100080, P.R.China  
**Name of Product:** Industrial Intrinsically Safe Smartphone  
**Type of Product:** EX\_08  
**Marking:** Ex ib IIC T4 Gb / Ex ibD 21 T130°C  
**Technical Documents:** Q/DLM 004-2021  
**Drawing No.:** EX\_08 BZ01

**Note(s):**  
1. The rated voltage is DC 3.8V, Powered by a dual-protected polymer lithium-ion battery, Model: Ex battery054, Nominal capacity: 8500mAh;  
2. Ambient temperature range:  $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; IP code: IP68@1.5m, 30min;  
3. Do not charge in hazardous locations;

By verifying the drawings and technical documents and checking samples, the product complies with the following standards currently valid in P.R.China:

GB 3836.1-2010, GB 3836.4-2010, GB/T 4208-2017, GB 12476.1-2013, GB 12476.4-2010

**Date of Issue:** 23.12.2021

**Valid till:** 22.12.2026

**Authorize:**

  
  
China Coal Research Institute Testing Center



(The test center of the national safety production of mining equipment and mining oil in Beijing)

Note: This certificate is only valid for the products that are in accord with samples tested and verified.

Center Add: No.5 Qingniangou Road, Hepingli, Beijing, 100013

The query url of Explosion-proof Certificate: <http://www.ccritle.com.cn/Home>

Tel/fax: 010-89268018