DORLAND Industrial Intrinsically Safe Smartphone Unicorn9

DORLAND System Control Tech Co., Ltd. recently introduced the industrial intrinsically safe smartphone Unicorn9. It adopts advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.56 inch HD+ screen (20:09) design, equipped with 8MP front and 50MP+ 8MP+ thermal imaging camera at the rear. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, the phone is equipped with GPS positioning, compass and other functions suitable for outdoor construction and pipeline inspection. It can cooperate with OA office system, patrol positioning system, data acquisition system and other applications. Especially suitable for hazardous explosion environment, such as petroleum, chemical, pharmaceutical, oil depot, tank farm and other dangerous places with combustible and explosive gas, which is convenient for users to communicate with production and scheduling in time.

Ex-marking: Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
Certificate No.: CCRI 25.7931X
IP Grade: IP68

OS: Android 14.0
CPU: T606, Octa core, 2 * A75@1.6GHz + 6 * A55 @1.6GHz
Cameras:
Rear camera 50MP+8MP+Thermal imaging module
Front camera 8MP
Screen: 6.56 inch, (20:9), 720*1612 HD+
Memory: 6GB+256GB (RAM expansion 6GB/8GB/10GB with three levels of overclocking)
Storage Card: up to 2TB
Battery: 9400mAh, 3.85V
Frequency: 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
Navigation: Support, Beidou, Galileo, Glonass, GPS
WIFI: Support, 2.4G/5G（802.11ac/a/b/g/n）
Bluetooth: Support, BT5.0


DORLAND
Your safety is our mission


DORLAND
Unicorn9
Ex

Authentication parameters		Description
Authenticationparameters	Ex-marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
	Certificate No.	CCRI 25.7931X
	IP Grade	IP68
Product overview		**Description**
Product overview	Unit weight	343g(including battery)
	Dimensions (mm)	174*81.2*15.8mm
	OS	Android 14.0
Hardware configuration		**Description**
CPU	Model	T606
	Feature	Octa core 2 * A75@1.6GHz + 6 * A55 @1.6GHz
	Framework	Mali G57 1core
	Technology	12nm
GPU	GPU model	Mali-G57 GPU
network	Network	GSM/WCDMA/FDD/TDD
	Frequency	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)
	SIM card type	SUPPORT Nano SIM+Nano SIM+TF card（three out of three）
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
Front Camera 8MP		
Front Camera	Sensor	Omnivision OV8856
	Pixel area	3264*2448 8MP
Rear Camera 50MP+8MP		
Rear Camera	Sensor	Omnivision OV50C40
	Pixel area	50MP（8192*6144）
	Flash led	Support
Fusion camera	Sensor	Sumsung S5K4H5-YC
	Pixel area	3264*2448 8MP
Thermal imaging	Sensor	ECO160
	Spectral range	8～14 μm
	pixel size	160*120
	Pixel spacing	12 μm

camera	**NETD**	＜50mK @25℃，F#1.0，25Hz
	Thermal time constant	＜10ms
	Detector frame rate	≤25Hz
	Image output	8-bit standard parallel output, line by line readout, black hot, Raw 14bit
	Thermometric range	Temperature measurement range: -15 ℃~150 ℃ (high image quality) 50 ℃~550 ℃ (wide range)
	Thermometric accuracy	2% or ± 2 ℃
Mobile phone display	**Size & technology**	6.56 inch IPS, 20:9, 90Hz
	resolving power	720*1612 HD+
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
	NFC	Support
Sensor	**G-sensor**	Support
	Proximity sensor	Support
	Ambient light senor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support
Unlock method fingerprint	**Front lens**	Face recognition
	Fingerprint location	Side fingerprint
Port	**Headphone port**	Type-C to 3.5mm headphone jack
	Charger interface	Type-C
Battery	**Capacity**	9400mAh
	Voltage	3.85V
Software function		**Description**
System function	**System navigation**	Gesture navigation, "three button" navigation
	Smart gesture	Three finger screenshot, three finger camera entry
	FOTA upgrade OTA	Support
	Supported languages	English, Simplified Chinese, Traditional Chinese.（It has updated 48 languages）

CCRITC

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 25.7931X

Applicant Company: Beijing Dorland System Control Tech Co.,Ltd.

Production: Beijing Dorland System Control Tech Co.,Ltd.

Name of Product: Intrinsically safe intelligent industrial-grade explosion-proof smart phone

Type of Product: Unicorn9

Marking: Ex ib ⅡC T4 Gb/Ex ib ⅢC T130℃ Db

Technical Documents: Q/DLM 017-2025

Drawing No.: Unicorn9 ZZ01

Note(s): See attached page for details

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

GB/T 3836.1-2021, GB/T 3836.4-2021, GB/T 4208-2017

Date of Issue: 1. 14. 2026

Valid till: 1. 13. 2031

Authorize:

CCRI (Beijing) Testing Technology Co., Ltd.

(Beijing Testing Center of Mine Working Equipment and Mining Oils for National Safe Production)

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

Address: Building 6, No.5, Yulong Street, Caiyu Town, Beijing Economic and Technological Development Area(Daxing), Beijing Tel/fax: 010-89268018

The query url of Explosion-proof Certificate: http://jc.ccritc.com.cn

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF (APPENDIX)

Certificate No.: CCRI 25.7931X

1.Rated voltage DC 3.85V, powered by rechargeable lithium-ion battery packs with dual protection.

2.Operating environment temperature: -20℃≤Ta≤+60℃.IP code:IP68@1.5m，30min.

3.The suffix "X" indicates that the use of various cable interfaces in hazardous areas is prohibited, and charging and replacing batteries in hazardous areas is prohibited; When conducting data transmission or charging, it is necessary to use specialized connection devices with energy limiting measures that have been evaluated. Please refer to the instructions for usage precautions.

4.Association inspection report number:2025551078.

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