

## DORLAND Industrial Intrinsically Safe 5G Smartphone

### Versatile\_5G

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone Versatile\_5G, using 5g advanced technology, intrinsically safe circuit design, aggressive appearance, strong body. The mobile phone adopts a 6.583 "high-definition screen, with a rear four shot 108 + 20+ 16MP, and supports face recognition and standard NFC. Its waterproof and dust-proof performance reaches the international IP68 standard.

In addition, it supports fingerprint one key unlocking, Bluetooth, WiFi and other functions to meet the reading and writing requirements of various scenes. We have also configured GPS+ GLONASS+ Beidou+Galileo positioning and other functions suitable for outdoor construction and pipeline inspection, which can cooperate with OA office system, patrol positioning system, data acquisition system and other applications. It is 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.

**Protection Grade:** IP68

**Marking:** Ex ib IIC T4 Gb / Ex ibD 21 T130°C

**Certificate No.:** CCRI 23.7008X

**OS:** Android 12.0

**Screen:** 6.583inch, FHD+, 1080×2408 FHD+

**Memory:** 12GB RAM(12GB+Up to 8GB Extended RAM)  
+256GB ROM uMCP

**CPU:** MTK Dimensity 1080 Octa Core 2.6GHz  
2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH

**Cameras:** 108M(rear)+20M(night vision)+16M(Wide Angle)  
32MP(Front)

**Battery:** 10800mAh Battery voltage: 4.45V

**Frequency:**

GSM (B2/3/5/8)

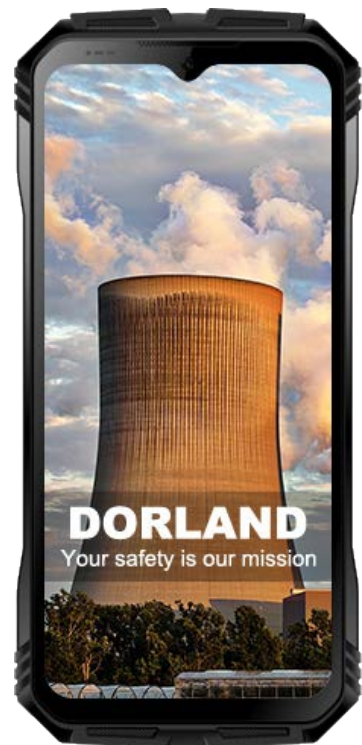
WCDMA (B1/2/4/5/6/8/19) CDMA: BC0/BC1/BC10

FDD: B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28A/28B/66

TDD: B34/38/39/40/41

NR: N1/N3/N7/N28/N38/N41/N77/N78/N79

**NFC:** yes



Beijing Dorland  
System Control  
Technology Co., Ltd.

Room1107, Tower B, Tsinghua  
Tongfang Technology Square,  
No.1 Wangzhuang Road,  
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496  
Fax: +86 010 62985217

www.dorland-tech.cn  
tian@dorland.com.cn

**DORLAND**  
www.dorland-tech.cn

**Fingerprint ID:** fingerprint unlocking

**GPS:** GLONASS, BEIDOU, Galileo, GPS(four choose four)



ADD: Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China.

Authentication parameters		Description
Authenti cation paramet ers	Marking	Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db
	Certificate No.	CCRI 23.7008X
	IP code	IP68
Product overview		Description
Product overview	Unit weight (including battery)	376g
	Dimensions (mm)	178.46*83.1*17.89mm
	Operating system	Android 12.0
Hardware configuration		Description
CPU	Model	MTK Dimensity 1080 Octa Core 2.6GHz
	Feature	octa-core 2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH
	Framework	ARM Cortex A78/Cortex A55
	Technology	6nm
GPU	GPU model	Arm Mali-G68 MC4
Video	Video encode	FHD+(21:9)@120fps MPEG-4 : 720 x 480@30 fps H.263 : 640 x 480@30 fps H.264/265 : 4K/2K 30fps
	Video decode	MPEG-4 : 1080p@60 fps/60 Mbps H.263 : 1080p@60 fps/60 Mbps H.264/265/VP-9 : 4K2K@30 fps/100Mbps
network	Network	GSM/WCDMA/CDMA/FDD/TDD/NR
	Frequency	GSM(B2/3/5/8) WCDMA(B1/2/4/5/6/8/19) CDMA: BC0/BC1/BC10 FDD: B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28A/28B/66) TDD: B34/38/39/40/41 NR: N1/N3/N7/N28/N38/N41/N77/N78/N79
	EDGE/GPRS	SUPPORT
Storage	memory	12GB RAM(12GB+Up to 8GB Extended RAM)+256GB ROM uMCP
	SIM card type	SUPPORT Nano Sim card+Nano Sim card+T card (choose two from three)
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
<b>Front Camera 32MP</b>		

<b>Front Camera</b>	Sensor	SONY IMX616-AAJH5-CM
	Sensing area	1/2.7inch 5P
	Pixel area	32M (6560*4928)
	Aperture	F/1.8±5%
	Optical zoom	N/A
	Field of view angle	83.84°
	Focus mode	FF
	Flash led	N/A
	Software function	Video、Picture、UHD、Gif、Filter、Beauty、Brand watermark、Mirror
<b>Rear Camera 108MP (main camera) + 20MP (night vision camera) + 16MP (wide-angle camera)</b>		
<b>Rear Camera</b>	Sensor	Samsung S5KHM2SP03-FGX9
	Sensing area	1/1.5 inch 7P
	Pixel area	12000*9000 108MP
	Aperture	F/1.75±5%
	Optical zoom	N/A
	Field of view angle	82°(Diag)
	Focus mode	PDAF
	Flash led	Support
	Software function	HDR、Water Mark、Night Vision、Video、Picture、Pro Mode、Potrait、Gif、Panorama、Intelligent Scanning
<b>Night vision camera</b>	Sensor	SONY IMX350 20MP
	Sensing area	1/2.8inch 6P
	Pixel area	20M (5184*3880)
	Aperture	F/1.8 ± 5%
	Optical zoom	N/A
	Field of view angle	78.1°(Diag)
	Focus mode	N/A
	Flash led	Support infrared night vision lights / Not Support Flash led
	Software function	Video、Picture
<b>Wide-angle camera</b>	Sensor	OmniVision OV16B10
	Sensing area	1/2.8 inch 6P
	Pixel area	4672*3504 16MP
	Aperture	F/2.2±5%
	Optical zoom	N/A

	Field of view angle	117.3°(Diag)
	Focus mode	AF
	Flash led	N/A
	Software function	Video、Picture、Macro
<b>Mobile phone display</b>	Size & technology	6.583inch IPS Waterdrop screen
	Screen color	16.7 million colors
	Type	in-cell
	resolving power	1080*2408 FHD+
	Pixel density	401PPI
	Screen aspect ratio	20:9
	Screen-to-body ratio	85%
	Brightness	400cd/m2/(TYP) 480cd/m2/
	Screen contrast	1500:1(TYP)
<b>Touch panel</b>	Panel technology	Multi-touch
	IC	FT8722
	Sensor technology	Capacitive touch, Incell architecture
	Material	GG3
	Fitting method	full lamination
<b>Transmission function</b>	navigation	Support (Beidou,Galileo,Glonass,GPS) Four out of four
	WIFI	Support Wi-Fi6(ax/ac/a/b/g/n)
	Bluetooth	Support BT5.2
	FM	Support
	OTG	Support
	NFC	Support
<b>Sensor</b>	Hall switch	N/A
	Infrared remote control	N/A
	HotKnot	N/A
	G-sensor	Support
	Proximity sensor	Support
	Ambient light sensor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support

<b>Unlock method fingerprint</b>	fingerprint location	Side fingerprint
	sensor	SW9022
	Coating	Fuel injection
	With or without metal ring	yes
	responding speed	<0.2s
	Recognition angle	360° recognizable
	Induction method	Capacitive sensor
	Spatial resolution	508DPI
<b>Hardware features</b>	Wireless charge	Support
	Hard coulometer	Support
	Rapid Charge	Support 66W
	Sound Amplifier	Smart PA AW88261
<b>Physical buttons</b>	Power button	Support
	Volume button	Support
	Custom key function	Support
<b>Virtual buttons</b>	Home button home	Support
	Menu button	Support
	Return button	Support
<b>Electric acoustic devices</b>	Speaker	1216 speaker BOX, dual speaker, stereo surround sound
	Motor	1027 flat motor
	Receiver	0809 cartridge earpiece
	Mic	Silicon MIC, dual mic noise reduction
	Notify light	Support
	Buttun LED LED	N/A
<b>Port</b>	Headphone port	Yes(Type-c)
	Charger interface	Type-c
<b>Battery</b>	Capacity	10800mAh
	Safe charging and discharging frequency	500 times
	Material	Lithium cobalt oxide
	Voltage	4.45V
	battery capacity factor	1.8
	discharge	MAX 1.2C

	coefficient	
	Battery density ratio	680Wh/L
<b>Housing</b>	Housing structure	Two-shot injection
	Housing material	PC+10% fiber+TUP90 degree
<b>Software function</b>		<b>Description</b>
<b>System function</b>	System navigation	Gesture navigation, "three button" navigation
	Smart gesture	Three finger screenshot, three finger access to camera, two finger volume adjustment, double tap wake-up, unlock
	Air gesture	N/A
	Communication somatosensory	N/A
	System somatosensory	N/A
	FOTA upgrade OTA	Support
	Supported languages	English, Spanish, Portuguese (Brazil), Portuguese (Portugal), Italian, German, French, Russian, Arabic, Malay, Thai, Greek, Ukrainian, Croatian, Czech, Simplified Chinese, Traditional Chinese. (It has updated 48 languages)
<b>Entertainment features</b>	Video playback	.avi.mp4, .3gp, .3g2, .3gpp, .3gpp2, .m4v.flv, .f4v.webm.wmv, .asf.mov, .qt.ts, .m2ts, .mts.mkv
	Video produce	Highest support @30fps video shooting
	Audioplayer	Support MP3, M4A, AAC, MKA, AMR, WMA/RA
	Graphic format	Support JPEG, BMP, GIF,PNG etc.
	Game	Support
	Applications	Support
<b>Other software</b>	Market	Support
	Share	Support
	Software Toolbox	Compass、 SoundMeter、 Pic Hanging、 Gradienter、 HeightMeasure、 Magnifier、 Protractor、 Plumb Bob
	Privacy protection, visitor mode	N/A
<b>Accessories</b>		<b>Description</b>
<b>Package Contents (Standards)</b>	Cellphone	x1
	Type-C USB Cable	x1
	Charger	x1

rd)	Anti-explosion film (Posted on the screen)	x1
	Anti-explosion film	x1
	Card Slot Opener	x1
	Packing box	x1
	manual	x1



## CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCR I 23.7008X

**Applicant Company:** Beijing Dorland System Control Tech Co.,Ltd.  
**Address:** Room1107,Tower B,Tsinghua Tongfang Technology Square,No.1 Wangzhuang Road,Beijing,P.R.China

**Name of Product:** Industrial Intrinsically Safe 5G Smartphone  
**Type of Product:** Versatile\_5G  
**Marking:** Ex ib II C T4 Gb/Ex ib IIIC T130°C Db  
**Technical Documents:** Q/DLM 005-2023  
**Drawing No.:** Versatile\_5G ZZ01  
**Note(s):** See attached page for details

**By verifying the drawings and 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. 23. 2024 


**Valid till:** 1. 22. 2029

**Authorize:** 

**Coal Science (Beijing) Test Technology Co., Ltd.**  
(Beijing Test 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://www.ccrice.com.cn/Home





**CONFORMITY CERTIFICATE OF  
EXPLOSION-PROOF ( APPENDIX )**

Certificate No.: **CCRI 23.7008X**

1. Rated voltage DC 3.8V, powered by rechargeable lithium-ion battery packs with dual protection.
2. Operating environment temperature:  $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ . IP code: IP68@1m, 1h.
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. Correlation test report number: 202355562.



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