Beijing Dorland
System Control
Technology Co., Ltd.

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Dorland Industrial Intrinsically Safe 5G Smartphone EXTRA_5G PRO

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone EXTRA_5G PRO, using 5g advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.43 "high-definition screen, rear three camera 64 + 24 + 8MP+thermal imaging camera, and supports face recognition and standard NFC. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, it supports fingerprint one click unlocking, Bluetooth, WiFi and other functions to meet the reading and writing needs of various scenes. We also configure GPS positioning and other functions suitable for outdoor construction and pipeline inspection in the mobile phone, which can cooperate with OA office system, inspection and positioning system, data acquisition system and other applications. It is especially suitable for the harsh environment of dangerous explosion, such as petroleum, chemical industry, pharmacy, military industry, oil depot, tank farm and other dangerous places with combustible and explosive gases, so as to facilitate the timely communication between users and production and dispatching.



IP Grade: IP68

Ex-mark: Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db

Certificate No.: CCRI 22.2641X

OS: Android 12.0

Screen: 6.43 inches, 20:9 1080*2400 FHD+

Memory: 12GB+256GB（Extended RAM：3GB/5GB/8GB）

Expanded memory: Up to 2TB

CPU: MT6833 Dimensity 700, Octa Core；

2x ARM Cortex-A76 2.2GHz 256KB L2

6x ARM Cortex-A55 2.0GHz 128KB L2 1MB L3

Camera:

64MP(main camera)+24MP(night vision camera)+8MP(fusion camera)

16MP (front)

Battery: 6000mAh 3.85V

Frequency: NR: N1/3/5/7/8/20/28/38/40/41/77/78/79

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FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66

TDD: B34/38/39/40/41

WCDMA: B1/2/4/5/6/8/19

CDMA: BC0/BC1/BC10

GSM: B2/3/5/8WIFI: Support, 2.4G / 5G(802.11ac/a/b/g/n)

GPS：Support, Beidou, Galileo, Glonass, GPS

Choose three from four

Bluetooth: Ver 5.1

Side fingerprint identification: Support

Face recognition: Support





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Authentication parameters		Description
Authentication parameters	Marking	Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db
	Certificate No.	CCRI 22.2641
	IP code	IP68
Product overview		**Description**
Product overview	Unit weight (including battery)	296g
	Dimensions (mm)	170.5*81.2*14mm
	Package weight	729g
	Three defence standards	IP68 / IP69K / MIL-STD-810H
	Operating system	Android 12.0
Hardware configuration		**Description**
CPU	Model	MT6833 Dimensity 700
	Feature	Octa Core； 2x ARM Cortex-A76 2.2GHz 256KB L2 6x ARM Cortex-A55 2.0GHz 128KB L2 1MB L3
	Framework	ARM Cortex A76/Cortex A55
	Technology	7nm
GPU	GPU model	Arm Mali-G57 MC2
Video	Video encode	2K 30fps H.264/265
	Video decode	2K 30fps H.264/265/VP9
network	Network	GSM/WCDMA/CDMA/FDD/TDD/SA/NSA
	Frequency	NR: N1/3/5/7/8/20/28/38/40/41/77/78/79 FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66 TDD: B34/38/39/40/41 WCDMA: B1/2/4/5/6/8/19 CDMA: BC0/BC1/BC10 GSM: B2/3/5/8
	EDGE/GPRS	SUPPORT
Storage	memory	12GB+256GB （Extended RAM：3GB/5GB/8GB）
	SIM card type	SUPPORT Nano SIM+Nano SIM OR Nano SIM + TF card
	Memory card type	T-flash card
	Expanded memory	Up to 2TB

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	Front Camera 16 MP	
Front Camera	**Sensor**	Samsung S5K3P9sp 16MP
	Sensing area	1/3.inch
	Pixel area	4656*3504
	Aperture	F/2.0±5%
	Optical zoom	N/A
	Field of view angle	80°(Diag)
	Focus mode	FF
	Flash led	N/A
	Software function	(Video)、(Picture)、（Gif）、（Potrait）
	Rear Camera 64MP(main camera) + 24MP(night vision camera) + 8MP(fusion camera)	
Rear Main Camera	**Sensor**	OmniVision OV64B40 64MP
	Sensing area	1/2 inch 6P
	Pixel area	9248*6944
	Aperture	F/1.8±5%
	Optical zoom	N/A
	Field of view angle	80.7°(Diag)
	Focus mode	PDAF
	Flash led	Support
	Software function	HDR、AI、(Water Mark)、（Night Vision）、(Video)、(Picture)、(UHD)、(Night Mode)、(Pro Mode)、（Potrait）、(Gif)、(Panorama)、(Intelligent Scanning)
Fusion camera	**Sensor**	Samsung S5K4H8YX
	Sensing area	1/4inch 5P
	Pixel area	8M 3264*2448
	Aperture	F/1.8±5%
	Optical zoom	NA
	Field of view angle	81.5°(Diag)
	Focus mode	NA
	Flash led	NA
	Software function	(Picture)、(Water Mark)
Night vision camera	**Sensor**	OmniVision OV24A1B-rev-1B
	Sensing area	1/2.83inch 6P
	Pixel area	24M 5664*4248
	Aperture	F/1.8±5%
	Optical zoom	NA
	Field of view angle	78°(Diag)
	Focus mode	NA

	Flash led	NA
	Software function	(Video)、(Picture)
Thermal imaging camera	**Sensor**	Tiny1-C
	Spectral range	8～14 μm
	pixel size	256×192
	Pixel spacing	12μm
	NETD	＜50mK @25℃，F#1.0，25Hz
	Thermal time constant	＜1＜10ms
	Detector frame rate	≤25Hz
	Image output	10bit/14bit
	Measuring range	Industrial temperature measurement: -15 ℃ ~+150 ℃ (high gain) 50 ℃~+550 ℃ (low gain)
	Thermometric accuracy	Biological temperature measurement: 30 ℃~45 ℃“
	Temperature measuring distance	Industrial temperature measurement: ± 2 ℃ or ± 2% of reading
Mobile phone display	**Size & technology**	6.43 AMOLED
	Screen color	16.7 million colors
	Type	AMOLED
	Resolution	1080*2400 FHD+
	Pixel density	409ppi
	Screen aspect ratio	20:9
	Screen-to-body ratio	85%
	Brightness	500cd/m2
	Screen contrast	80000:1
Touch panel	**Panel technology**	Multi-touch
	IC	GT9885
	Sensor technology	Capacitive touch screen
	Material	Corning Gorilla Glass
	Fitting method	full lamination
Transmission function	**navigation**	SUPPORT Beidou,Galileo,Glonass,GPS / Choose three from four
	WIFI	SUPPORT 2.4G/5G（802.11ac/a/b/g/n）
	Bluetooth	SUPPORT BT5.1
	FM	SUPPORT / Plug in the headphone adapter cable to support external amplifier
	OTG	SUPPORT
	NFC	SUPPORT
Sensor	**Hall switch**	N/A
	Infrared remote control	N/A
	HotKnot	N/A
	G-sensor	SUPPORT / Triaxial

	Proximity sensor	SUPPORT
	Ambient light senor	SUPPORT
	Compass (magnetic)	SUPPORT
	Geomagnetism	SUPPORT
	Gyroscope	SUPPORT
Unlock method	**fingerprint location**	Side fingerprint
	sensor	FT9391EC
	Coating	Coating
	With or without metal ring	Metal Ring
	responding speed	0.18s response speed
	Recognition angle	360° identification angle
	Induction method	Capacitance touch sensor
	Spatial resolution	564 DPI
Hardware features	**Wireless charge**	N/A
	Hard coulometer	Support
	Sound Amplifier	Smart power amplifier, AW88194
Physical buttons	**Power button**	SUPPORT
	Volume button	SUPPORT
	Custom key function	SUPPORT
Virtual buttons	**Home button**	SUPPORT
	Menu button	SUPPORT
	Return button	SUPPORT
Electric acoustic devices	**Speaker**	1217BOX AAC
	Motor	0827 flat wire bonding motor
	Receiver	0809 shrapnel type AAC
	Mic	AAC Silicon microphone
	Notify light	Support
	Buttun LED	N/A
Port	**Headphone port**	Yes Type-c
	Charger interface	Type-c
Battery	**Capacity**	6000mAh
	Fully charge and discharge frequency	400 times
	Material	Lithium Cobalt Oxide
	Voltage	3.85V
	Discharge coefficient	MAX 1.2C
	Battery density ratio	639Wh/L
Housing	**Housing structure**	In-mold injection of aluminum titanium bracket + two-color injection
	Housing material	Two-color injection molding process

	Housing color	Black, Orange
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
	Air gesture	N/A
	Communication somatosensory	Support / Smart answer, wake up when picking up the device, this function is turned off by default
	System somatosensory	Support / Three-finger screenshot, anti-mistouch mode, this function is off by default
	FOTA upgrade OTA	Support
	Supported languages	English, Simplified Chinese, Traditional Chinese,etc.（It has updated 48 languages）
Entertainment features	**Video playback**	Support AVI, MP4, WMV, RMVB, MKV, MOV, ASF, RM, FLV and other video formats, up to / 30fps
	Video produce	Highest support 1080P@30fps video shooting
	Audioplayer	Support MP3, M4A, AAC, MKA, AMRAnd other video formats / supports lossless format：ALAC(Apple Lossless), FLAC, APE, WAV
	Graphic format	Support JPEG, BMP, GIF,PNG etc.
	Game	Support
	Applications	Support
Other software	**Market**	Support
	Share	Support
	Software Toolbox	(Compass)、(Noise test)、(Pic Hanging)、(Gradienter)、(HeightMeasure)、(Magnifier)、(Protractor)、(Plumb Bob)、(Alarm bell)、(Flashlight)、（Pedometer）
	Privacy protection, visitor mode	N/A
Accessories		**Description**
Package Contents（Standard）	**Cellphone**	x1
	Type-C Port Cable	x1
	Charger	x1
	Tempered film	x1（Posted on the screen）
	Anti-explosion film	x1
	Card Slot Opener	x1
	Packing box	x1
	manual	x1

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CCRITC

210016344553

中国认可
检测
TESTING
CNAS L0738

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 22.2641X

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

Address: Room1107,Tower B,Tsinghua Tongfang TechnologySquare,No.1 Wangzhuang Road,Haidian District,Beijing,P.R.China

Name of Product: Industrial Intrinsically Safe 5G Smartphone

Type of Product: EXTRA_5G

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

Technical Documents: Q/DLM 001-2022

Drawing No.: EXTRA_5G BZ01

Note(s):

1. The rated voltage is DC 3.85V, and the power supply is lithium-ion battery with dual protection,Nominal total capacity 6000mAh;
2. Ambient temperature: -20 ℃ ≤ TA ≤ +60 ℃;
3. Enclosure protection grade: IP68 @1.5m, 30min;
4. The suffix "X" indicates that charging and battery replacement in hazardous places are prohibited.When charging and data transmission are carried out in non hazardous places, special connectors with intrinsic safety assessment shall be used. See the product manual 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: 7. 8. 2022

Valid till: 7. 7. 2027

Authorize:

China Coal Research Institute
China Coal Research Institute Testing Center

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 Tel/fax：010-89268018
The query url of Explosion-proof Certificate：http://www.ccritc.com.cn/Home