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 Industrial Intrinsically Safe 5G Smartphone EXTRA_5G Plus

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone EXTRA_5G Plus, 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 50+24+8MP, and supports face recognition and fingerprint one click unlocking. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, it supports standard NFC, 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 13.0

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

Secondary screen: 1.58 "AMOLED AMOLED 460 * 228

Memory: 12GB+256GB（Extended RAM：8GB/12GB/20GB）

Expanded memory: Up to 2TB

CPU: Dimensity 6020 Octa Core

2*ARM Cortex-A76 2.2GHz 256KB L2

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

Camera:

Rear Camera 50MP(main camera) + 24MP(night vision camera) + 8MP(Wide Angle & Macro camera)

Front Camera 20 MP

Battery: 6000mAh 3.8V

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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

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

GPS: Support, Beidou, Galileo, Glonass, GPS, Three out of four

Bluetooth: BT 5.1

Unlock method: Side fingerprint identification, Support facial unlocking



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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)	170.9*81.9*14mm
	Operating system	Android 13.0
Hardware configuration		**Description**
CPU	Model	Dimensity 6020
	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：8GB/12GB/20GB）
	SIM card type	SUPPORT Nano SIM+Nano SIM OR Nano SIM + TF card
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
	Front Camera 20 MP	
Front Camera	Sensor	OmniVision OV20880
	Sensing area	1/3.1inch 5P
	Pixel area	5184*3888 20M
	Aperture	F/2.0±5%
	Optical zoom	N/A

	Field of view angle	75.5°(Diag)
	Focus mode	FF
	Flash led	N/A
	Software function	Brand watermark, Video, Picture, Portrait, Gif, Beauty, Anti Flicker, Filter, Film mode, Mirror
	Rear Camera 50MP(main camera) + 24MP(night vision camera) + 8MP(Wide Angle & Macro camera)	
Rear Main Camera	**Sensor**	OmniVision OV50C
	Sensing area	1/2.5 inch 5P
	Pixel area	8192 * 6144 50M
	Aperture	F/1.8 ± 5%
	Optical zoom	N/A
	Field of view angle	78.83 ° (Diag)
	Focus mode	AF
	Flash led	Support
	Software function	HDR, AI camera, Brand watermark, Night mode, Video, Picture, Pro mode (adjustable parameters), Portrait, Gif, Panorama, Intelligent Scanning, Beauty, Anti Flicker, Slow motion, Film, Time Lapse, Filter
Wide Angle & Macro camera	**Sensor**	Samsung S5K4H8YX
	Sensing area	1/4 inch 5P
	Pixel area	8M 3264 * 2448
	Aperture	F/2.2 ± 5%
	Optical zoom	nothing
	Field of view angle	118.8 ° (Diag)
	Focus mode	AF
	Flash led	nothing
	Software function	Picture, Brand Watermark, Filter, Anti Flicker, Macro, Wide Angle
Night vision camera	**Sensor**	OmniVision OV24A1B-rev-1B
	Sensing area	1/2.83 inch 6P
	Pixel area	24M 5664 * 4248
	Aperture	F/1.8 ± 5%
	Optical zoom	nothing
	Field of view angle	78 ° (Diag)
	Focus mode	AF
	Flash led	nothing
	Software function	Video, Picture, Anti Flicker, Brand Watermark, Filter
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	20:09
	Screen-to-body ratio	85%
	Brightness	500cd/m2
	Screen contrast	80000:1
Touch panel	**Panel technology**	Multi touch
	IC	GT9885
	Sensor technology	Capacity touch screen
	Material	Corning Gorilla Glass 3
	Fitting method	Full fit
Display	**Size & technology**	1.58 "AMOLED
	Screen color	16.7 million colors
	Type	AMOLED
	Resolution	460 * 228
	Pixel density	325 PPI
	Aspect Ratio	2:01
	Material	Panda Glass
	IC	FT3168
	Screen contrast	10000:1
Transmission function	**navigation**	SUPERT Beidou, Galileo, Glonass, GPS/Choose three from four
	WIFI	SUPERT 2.4G/5G (802.11ac/a/b/g/n)
	Bluetooth	SUPERT BT5.1
	FM	SUPERT/Plug in the headphone adapter cable to support external amplifier
	OTG	SUPERT
	NFC	SUPERT
Sensor	**Hall switch**	N/A
	Infrared remote control	N/A
	HotKnot	N/A
	G-sensor	SUPERT
	Proximity sensor	SUPERT
	Ambient light senor	SUPERT
	Compass (magnetic)	SUPERT
	Geomagnetism	SUPERT
	Gyroscope	SUPERT
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	Capacity touch sensor
	Spatial resolution	564 DPI
Hardware features	**Wireless charge**	N/A
	Hard coulometer	Support
	Rapid Charge	SUPERT 11V/3A
	Sound Amplifier	Smart power amplifier, AW88194
Physical buttons	**Power button**	SUPERT
	Volume button	SUPERT
	Custom key function	SUPERT
Virtual buttons	**Home button**	SUPERT
	Menu button	SUPERT
	Return button	SUPERT
Electric acoustic devices	**Speaker**	1217BOX AAC
	Motor	1027 flat motor
	Receiver	0809 waterproof earpiece
	Mic	AAC Silicon microphone
	Notify light	Support
	Buttun LED	N/A
Port	**Headphone port**	Yes Type-c to 3.5mm headphone jack
	Charger interface	Type-c
Battery	**Capacity**	6000mAh
	Fully charge and discharge frequency	500 times
	Material	Gel polymer battery
	Voltage	3.85V
	Discharge coefficient	MAX 1.2C
	Battery density ratio	639Wh/L
Housing	**Housing structure**	Two color injection+aluminum titanium bracket
	Housing material	PC+TPU+aluminum alloy side edge+anti leather texture back cover
	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
	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）
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（Posted on the screen）	x1
	Anti-explosion film	x1
	Packing box	x1
	manual	x1

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CMA 210016344553

CNAS 中国认可 检测 TESTING CNAS L0738

CCRITC

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