

## **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°C 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

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



Authentication parameters		Description
Authentication parameters	Marking	Ex ib IIC T4 Gb/ Ex ib IIIC T130°C 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
<b>Front Camera 20 MP</b>		
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

	<b>Field of view angle</b>	75.5°(Diag)
	<b>Focus mode</b>	FF
	<b>Flash led</b>	N/A
	<b>Software function</b>	Brand watermark, Video, Picture, Portrait, Gif, Beauty, Anti Flicker, Filter, Film mode, Mirror
<b>Rear Camera 50MP(main camera) + 24MP(night vision camera) + 8MP(Wide Angle &amp; Macro camera)</b>		
<b>Rear Main Camera</b>	<b>Sensor</b>	OmniVision OV50C
	<b>Sensing area</b>	1/2.5 inch 5P
	<b>Pixel area</b>	8192 * 6144 50M
	<b>Aperture</b>	F/1.8 ± 5%
	<b>Optical zoom</b>	N/A
	<b>Field of view angle</b>	78.83 ° (Diag)
	<b>Focus mode</b>	AF
	<b>Flash led</b>	Support
<b>Software function</b>	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	
<b>Wide Angle &amp; Macro camera</b>	<b>Sensor</b>	Samsung S5K4H8YX
	<b>Sensing area</b>	1/4 inch 5P
	<b>Pixel area</b>	8M 3264 * 2448
	<b>Aperture</b>	F/2.2 ± 5%
	<b>Optical zoom</b>	nothing
	<b>Field of view angle</b>	118.8 ° (Diag)
	<b>Focus mode</b>	AF
	<b>Flash led</b>	nothing
<b>Software function</b>	Picture, Brand Watermark, Filter, Anti Flicker, Macro, Wide Angle	
<b>Night vision camera</b>	<b>Sensor</b>	OmniVision OV24A1B-rev-1B
	<b>Sensing area</b>	1/2.83 inch 6P
	<b>Pixel area</b>	24M 5664 * 4248
	<b>Aperture</b>	F/1.8 ± 5%
	<b>Optical zoom</b>	nothing
	<b>Field of view angle</b>	78 ° (Diag)
	<b>Focus mode</b>	AF
	<b>Flash led</b>	nothing
<b>Software function</b>	Video, Picture, Anti Flicker, Brand Watermark, Filter	
<b>Mobile phone display</b>	<b>Size &amp; technology</b>	6.43 "AMOLED
	<b>Screen color</b>	16.7 million colors
	<b>Type</b>	AMOLED
	<b>Resolution</b>	1080 * 2400 FHD+
	<b>Pixel density</b>	409ppi

	<b>Screen aspect ratio</b>	20:09
	<b>Screen-to-body ratio</b>	85%
	<b>Brightness</b>	500cd/m2
	<b>Screen contrast</b>	80000:1
<b>Touch panel</b>	<b>Panel technology</b>	Multi touch
	<b>IC</b>	GT9885
	<b>Sensor technology</b>	Capacity touch screen
	<b>Material</b>	Corning Gorilla Glass 3
	<b>Fitting method</b>	Full fit
<b>Display</b>	<b>Size &amp; technology</b>	1.58 "AMOLED
	<b>Screen color</b>	16.7 million colors
	<b>Type</b>	AMOLED
	<b>Resolution</b>	460 * 228
	<b>Pixel density</b>	325 PPI
	<b>Aspect Ratio</b>	2:01
	<b>Material</b>	Panda Glass
	<b>IC</b>	FT3168
<b>Transmission function</b>	<b>navigation</b>	SUPERT Beidou, Galileo, Glonass, GPS/Choose three from four
	<b>WIFI</b>	SUPERT 2.4G/5G (802.11ac/a/b/g/n)
	<b>Bluetooth</b>	SUPERT BT5.1
	<b>FM</b>	SUPERT/Plug in the headphone adapter cable to support external amplifier
	<b>OTG</b>	SUPERT
	<b>NFC</b>	SUPERT
<b>Sensor</b>	<b>Hall switch</b>	N/A
	<b>Infrared remote control</b>	N/A
	<b>HotKnot</b>	N/A
	<b>G-sensor</b>	SUPERT
	<b>Proximity sensor</b>	SUPERT
	<b>Ambient light sensor</b>	SUPERT
	<b>Compass (magnetic)</b>	SUPERT
	<b>Geomagnetism</b>	SUPERT
<b>Unlock method</b>	<b>fingerprint location</b>	Side fingerprint
	<b>sensor</b>	FT9391EC
	<b>Coating</b>	Coating
	<b>With or without metal ring</b>	Metal Ring
	<b>responding speed</b>	0.18s response speed
	<b>Recognition angle</b>	360 ° identification angle

	<b>Induction method</b>	Capacity touch sensor
	<b>Spatial resolution</b>	564 DPI
<b>Hardware features</b>	<b>Wireless charge</b>	N/A
	<b>Hard coulometer</b>	Support
	<b>Rapid Charge</b>	SUPERT 11V/3A
	<b>Sound Amplifier</b>	Smart power amplifier, AW88194
<b>Physical buttons</b>	<b>Power button</b>	SUPERT
	<b>Volume button</b>	SUPERT
	<b>Custom key function</b>	SUPERT
<b>Virtual buttons</b>	<b>Home button</b>	SUPERT
	<b>Menu button</b>	SUPERT
	<b>Return button</b>	SUPERT
<b>Electric acoustic devices</b>	<b>Speaker</b>	1217BOX AAC
	<b>Motor</b>	1027 flat motor
	<b>Receiver</b>	0809 waterproof earpiece
	<b>Mic</b>	AAC Silicon microphone
	<b>Notify light</b>	Support
	<b>Buttun LED</b>	N/A
<b>Port</b>	<b>Headphone port</b>	Yes Type-c to 3.5mm headphone jack
	<b>Charger interface</b>	Type-c
<b>Battery</b>	<b>Capacity</b>	6000mAh
	<b>Fully charge and discharge frequency</b>	500 times
	<b>Material</b>	Gel polymer battery
	<b>Voltage</b>	3.85V
	<b>Discharge coefficient</b>	MAX 1.2C
	<b>Battery density ratio</b>	639Wh/L
<b>Housing</b>	<b>Housing structure</b>	Two color injection+aluminum titanium bracket
	<b>Housing material</b>	PC+TPU+aluminum alloy side edge+anti leather texture back cover
	<b>Housing color</b>	Black, Orange
<b>Software function</b>		<b>Description</b>
<b>System function</b>	<b>System navigation</b>	(Gesture navigation)、(3-button navigation)
	<b>Smart gesture</b>	SUPPORT / Support gestures subject to actual conditions, this feature is turned off by default
	<b>Air gesture</b>	N/A
	<b>Communication somatosensory</b>	Support / Smart answer, wake up when picking up the device, this function is turned off by default
	<b>System somatosensory</b>	Support / Three-finger screenshot, anti-mistouch mode, this function is off by default
	<b>Supported languages</b>	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>	<b>Video playback</b>	Support AVI, MP4, WMV, RMVB, MKV, MOV, ASF, RM, FLV and other video formats, up to / 30fps
	<b>Video produce</b>	Highest support 1080P@30fps video shooting
	<b>Audioplayer</b>	Support MP3, M4A, AAC, MKA, AMR And other video formats / supports lossless format: ALAC(Apple Lossless), FLAC, APE, WAV
	<b>Graphic format</b>	Support JPEG, BMP, GIF,PNG etc.
	<b>Game</b>	Support
	<b>Applications</b>	Support
<b>Other software</b>	<b>Market</b>	Support
	<b>Share</b>	Support
	<b>Software Toolbox</b>	(Compass)、(Noise test)、(Pic Hanging)、(Gradienter)、(HeightMeasure)、(Magnifier)、(Protractor)、(Plumb Bob)、(Alarm bell)、(Flashlight)、(Pedometer)
	<b>Privacy protection, visitor mode</b>	N/A
<b>Accessories</b>		<b>Description</b>
<b>Package Contents (Standard)</b>	<b>Cellphone</b>	x1
	<b>Type-C Port Cable</b>	x1
	<b>Charger</b>	x1
	<b>Tempered film (Posted on the screen)</b>	x1
	<b>Anti-explosion film</b>	x1
	<b>Packing box</b>	x1
	<b>manual</b>	x1

	 210016344553	 中国认可 检测 TESTING CNAS L0738
<b>CONFORMITY CERTIFICATE OF EXPLOSION-PROOF</b>		
Certificate No.:		CCRI 22.2641X
<b>Applicant Company:</b>	Beijing Dorland System Control Tech Co.,Ltd	
<b>Address:</b>	Room1107,Tower B,Tsinghua Tongfang TechnologySquare,No.1 Wangzhuang Road,Haidian District,Beijing,P.R.China	
<b>Name of Product:</b>	Industrial Intrinsically Safe 5G Smartphone	
<b>Type of Product:</b>	EXTRA_5G	
<b>Marking:</b>	Ex ib II C T4 Gb / Ex ib III C T130°C Db	
<b>Technical Documents:</b>	Q/DLM 001-2022	
<b>Drawing No.:</b>	EXTRA_5G BZ01	
<b>Note(s):</b>	<ol style="list-style-type: none"><li>1. The rated voltage is DC 3.85V, and the power supply is lithium-ion battery with dual protection,Nominal total capacity 6000mAh;</li><li>2. Ambient temperature: -20 °C ≤ TA ≤ +60 °C;</li><li>3. Enclosure protection grade: IP68 @1.5m, 30min;</li><li>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.</li></ol>	
<b>By verifying the drawings and technical documents and checking samples, the product complies with the following standards currently valid in P.R.China:</b>		
GB/T 3836.1-2021, GB/T 3836.4-2021, GB/T 4208-2017		
<b>Date of Issue:</b>	7. 8. 2022	
<b>Valid till:</b>	7. 7. 2027	
<b>Authorize:</b>		
 		
<b>China Coal Research Institute China Coal Research Institute Testing Center</b>		
<small>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: <a href="http://www.ccrirc.com.cn/Home">http://www.ccrirc.com.cn/Home</a></small>		