

Dorland Industrial Intrinsically Safe 5G Smartphone Extreme_5G

Developed by Beijing Dorland System Control Technology Co. Ltd., the industrial Intrinsically Safe 5G Smartphone Extreme_5G adopts advanced technology with intrinsically safe circuit, 6.39" 19.5:9 touch screen and 16M (Front Camera) & 48M+8M+2M+30W (Rear Camera). Its waterproof and dustproof performance can meet the international IP68 standards. Side fingerprint unlock function, NFC function meets read-write needs on any occasion. In addition, built-in GPS+Beidou+Galileo+Glonass and other functions are suitable for outdoor construction and pipeline inspection. ExTreme_5G can also cooperate with OA office system, checking positioning system and data acquisition system etc. This model is especially suitably used in dangerous environment such as petroleum, chemical, pharmaceutical, oil depot, tank farm as well as the dangerous sites with combustible and explosive gas. It is convenient for users' timely production dispatching and communication.

IP Grade: IP68

Ex-mark: Ex ib IIC T4 Gb / Ex ibD 21 T130°C

Certificate no.: CCRI 21.2841

OS: Android 11.0

Screen: 6.39 inches, 19:9 720*1560 HD+

Memory: 8GB+128GB

Platform: MTK6833 天玑 700 8core

Camera: 48+8+2+0.3 MP (REAR) 16MP (FRONT)

Battery: 8500mAh 4.4V

Frequency: GSM: B2/3/5/8 WCDMA: B1/2/4/5/6/8/19

CDMA:BC0/BC1/BC10

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

LTE_TDD(B34/38/39/40/41)

NR(N1/3/5/7/8/20/28/38/40/41/77/78/79)

Size: 169.3*81.2*16.1mm

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

USB interface: Type C



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.com
tian@dorland.com.cn

DORLAND

www.dorland-tech.com

Sensor: G-sensor, Proximity sensor, Ambient light sensor, Compass (magnetic), Geomagnetism, Gyroscope

GPS: Support, Beidou, Galileo, Glonass, GPS

Bluetooth: 5.2 Side fingerprint identification: Support



Certificate parameters		Description
Certificate parameters	Ex-mark	Ex ib IIC T4 Gb / Ex ibD 21 T130°C
	Certification No.	CCRI 21.2841
	IP Grade	IP68
Product overview		Description
Product overview	Unit weight	340g (including battery)
	Dimensions (mm)	169.3*81.2*16.1mm
	Operating system	Android 11.0
Hardware configuration		Description
CPU	Model	MT6833 天玑 700
	Feature	8 core
	Framework	2*2.2GHZ A76 6*2.0GHZ A55
	Technology	7nm
GPU	GPU model	ARM Mali-Natt MC2 Manhattan 3.0 40fps
Video	Video encode	MPEG4/H.263/264/HEVC/HEIF
	Video decode	(2K)2560*1440 30fps, HEVC/H.264//VP9/DVIX/MPEG4/HEIF
Network	Network	GSM/WCDMA/CDMA/LTE_FDD/LTE_TDD/NR
	Frequency	GSM: B2/3/5/8 WCDMA: B1/2/4/5/6/8/19 CDMA:BC0/BC1/BC10 LTE_FDD(B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66) LTE_TDD(B34/38/39/40/41) NR(N1/3/5/7/8/20/28/38/40/41/77/78/79)
	EDGE/GPRS	Support
Storage	RAM	8GB /DDR4
	ROM	128GB /DDR4
	SIM card type	Support, Nano SIM+Nano SIM
Front Camera	Front Camera 16MP	
	Sensor	SONY IMX351-OAPHS-C 1600W
	Sensing area	1/3inch
	Pixel area	4688*3512
	Aperture	F/2.0±5%
	Sensor type	77°
	Software function	Video, Picture, Beauty, Bokeh, Mono, Water Mark, Mirror, Fill light
Rear Camera	Rear Camera 48MP+8MP+2MP+30W	
	Sensor	Samsung S5KGM1ST03-FGX9 48MP
	Sensing area	1/2.25inch
	Pixel area	6000*8000
	Aperture	F/1.8±5%
	Sensor type	79±3°

	PDAF	Support
	Flash led	Support
	Software function	Panorama, Video, Picture, Beauty, Bokeh, Pro, Mono, HDR, Water Mark
Macro	Sensor	GC02M2 2MP
	Sensing area	1/5inch
	Pixel area	1616*1224
	Aperture	F/ 2.8± 5%
	Sensor type	75°
	Software function	Video, Picture
Wide-angle	Sensor	Samsung,s5k4h7 8MP
	Sensing area	1/4inch
	Pixel area	2448*3264
	Aperture	2.2±5%
	Sensor type	118.8°
	PDAF	AF
Display	Size & technology	6.39" IPS
	Screen color	16.7M
	Type	LCD
	Resolution	720*1560 HD+
	Pixel density	270ppi
	Aspect Ratio	19:09
	Brightness	430cd/m2 (MIN)
	Screen contrast	1000/1
Transmission function	navigation	Support, Beidou, Galileo, Glonass, GPS
	WIFI	Support, 2.4G/5G (802.11ac/a/b/g/n)
	Bluetooth	Support, BT5.2
	FM	Support / plug in headphones support external playback
	OTG	Support
	NFC	Support, Google pay
Sensor	G-sensor	Support, triaxial
	Other sensors	Support, Proximity sensor, Ambient light sensor, Compass (magnetic), Geomagnetism, Gyroscope
Unlock method	Side fingerprint identification	ICNF723A2L
		Coating surface material
		No stainless steel metal ring
		0.19s response speed
		360° identification angle
		Capacitance touch sensor
		508DPI scanning resolution
Hardware features	Wireless charge	Support
	Rapid Charge	Support, maximum charge 11V/3A

	Sound Amplifier	Intelligent power amplifier, FS1894SU
Touch panel	Panel technology	Double layer multipoint
	IC	FT8615-AB
	Sensor technology	Capacitive touch screen
	Material	Panda tempered glass
	Fitting method with Display	Full paste
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	1813 box single box horn rated 1.0W, maximum 1.2W
	Motor	827
	Receiver	1008 Shrapnel type
	Mic	Silicon wheat
Port	Headphone port	N/A
	Charger interface	Type-c
Battery	Capacity	8500mAh
	Voltage	4.4V
Software function		Description
System function	System navigation	Gesture navigation, 3-button navigation
	Smart gesture	Gesture support is subject to the actual situation, and this function is turned off by default
	Communication somatosensory	Support, Flip mute and intelligent answer are turned off by default, and wake up when picking up the device is turned on by default
	System somatosensory	Support, Three finger screen capture, three finger access to the camera, two finger volume adjustment, alarm clock flip pause. 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,, MKV, MOV, ASF, FLV and other video formats, up to 1080P/ 30fps
	Video produce	Highest support 1080P@30fps video shooting
	Audioplayer	Support MP3, AAC, AMRAnd other video formats / supports lossless format: ALAC(Apple Lossless), FLAC, APE, WAV
	Graphic format	Support JPEG, BMP, GIF,PNG etc.
	Applications	Support

Other software	Market	Support
	Share	Support
	Software Toolbox	Compass, Gradienter, pedometer, Pic Hanging, HeightMeasure, Magnifier, Alarm bell, Plumb Bob, Protractor, SoundMeter
Accessories		Description
Package Contents	Cellphone	x1
	Type-C USB	x1, 2A
	Charger	x1, 12V/2A
	Explosion-proof film	x1
	Explosion-proof film	x1
	Card Slot Opener	x1
	Sling	x1
	Packing box	x1
	manual	x1
	Frosted PE bag	x1
	warranty card	x1

	 170021131268	 中国认可 检测 TESTING CNAS L0738
CONFORMITY CERTIFICATE OF EXPLOSION-PROOF		
Certificate No.:		CCRI 21.2841
Company:	Beijing Dorland System Control Tech Co., Ltd.	
Address:	Room 807, Yingu Plaza, North 4th Ring West Road, Haidian District, Beijing 100080, P.R.China	
Name of Product:	Industrial Intrinsically Safe 5G Smartphone	
Type of Product:	Extreme_5G	
Marking:	Ex ib IIC T4 Gb / Ex ibD 21 T130°C	
Technical Documents:	Q/DLM 003-2021	
Drawing No.:	Extreme_5G BZ01	
Note(s):	1.The rated voltage is DC 3.8V, Powered by a dual-protected polymer lithium-ion battery, Model: Ex battery053, Nominal capacity: 8500mAh; 2.Ambient temperature range: -20°C ≤ Ta ≤ +60°C; IP code: IP68@1.5m, 30min; 3. Do not charge in hazardous locations;	
By verifying the drawings and technical documents and checking samples, the product complies with the following standards currently valid in P.R.China: GB 3836.1-2010, GB 3836.4-2010, GB/T 4208-2017, GB 12476.1-2013, GB 12476.4-2010		
Date of Issue:	05.01.2022	
Valid till:	04.01.2027	
Authorize:	 	
China Coal Research Institute Testing Center		
(The test center of the national safety production of mining equipment and mining oil in Beijing)		
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 The query url of Explosion-proof Certificate: http://www.ccritle.com.cn/Home Tel/fax: 010-89268018		