

#### Dorland Industrial Intrinsically Safe 5G Smartphone EXTRA\_5G

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone EXTRA\_5G, 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 + 2 + 0.8mp, 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 ibD 21 T130°C

OS: Android R (11.0)

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

Memory: 8GB+256GB

Expanded memory: Up to 256G

CPU: MT6833(5G-C) 8core

2x ARM Cortex-A76 2.2GHz 256KB L2

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

Camera: 64MP + 8MP + 2MP + 20MP (REAR)

16MP (FRONT)

Battery: 6000mAh 4.4V

Frequency: GSM: B2/3/5/8

CDMA: BC0/BC1/BC10

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





TDD: B34/38/39/40/41

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

SA: n1/3/5/8/20/28/38/41/77/78/79

NSA: B1+n78、B3+n78、B5+n78、B8+n78、B1+n79、B3+n79、B8+n79、B3+n41、B8+n41、B39+n41、

B1+n38、B40+n77Size: 169.3\*81.2\*16.1mm

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

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

Bluetooth: Ver 5.1 Side fingerprint identification: Support











Authentication parameters		Description
Authentication	Marking	Ex ib IIC T4 Gb / Ex ibD 21 T130°C
parameters	IP code	IP68
<u> </u>	oduct overview	Description
	Unit weight	296g(including battery)
Product	Dimensions (mm)	170.5*81.2*14MM
overview	Operating system	Android R (11.0)
Hardy	vare configuration	Description
	Model	MT6833 ( 5G-C )
CPU	Feature	8core: 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 NATT MC2
\/:daa	Video encode	2K 30fps H.264/265
Video	Video decode	2K 30fps H.264/265/VP9
	Network	GSM/WCDMA/CDMA/FDD/TDD/SA/NSA
network	Frequency	GSM: B2/3/5/8 CDMA: BC0/BC1/BC10 WCDMA: B1/2/4/5/6/8/19 TDD: B34/38/39/40/41 FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66 SA: n1/3/5/8/20/28/38/41/77/78/79 NSA: B1+n78、B3+n78、B5+n78、B8+n78、B1+n79、B3+n79、B8+n79、B3+n41、B8+n41、B39+n41、B1+n38、B40+n77
	EDGE/GPRS	Support
	memory	8GB+256GB
Storage	SIM card type	Support Nano SIM+Nano SIM+TF card
Storage	Memory card type	T-flash card
	Expanded memory	Up to 256G
	Fro	ont Camera 16 MP
	Sensor	Samsung S5K3P9sp 1600W
Front Camera	Sensing area	1/3.inch
	Pixel area	4656*3504
	Aperture	F/2.0±5%
	Optical Image Stabilization	N/A
	Sensor type	76.6°
	Phase focusing	FF
	Flash led	N/A

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	Software function	www.dorland-tech.com Video, Picture, Gif, Potrait
		64MP + 8MP + 2MP + 20MP
	Sensor	OV64B40 6400W
	Sensing area	1/3.08inch
	Pixel area	9248*6944
	Aperture	F/1.79±5%
	Optical Image Stabilization	N/A
Rear Main	Sensor type	80.7°
Camera	Phase focusing	PDAF
	Flash led	Support
		HDR, Water Mark, Night Vision, Video, Picture, UHD,
	Software function	Night Mode, Pro Mode, Potrait, Gif, Panorama, Slow
		Motion, Time Lapse, Intelligent Scanning
	Sensor	Samsung S5K4H7 800W
	Sensing area	1/4 inch
	Pixel area	2448*3264
\A(')	Aperture	2.2±5%
Wide-angle	Optical Image Stabilization	N/A
camera	Sensor type	118.8°
	Phase focusing	AF
	Flash led	N/A
	Software function	Picture, Water Mark
	Sensor	SNOY IMX350 2000W
	Sensing area	1/2.8inch
	Pixel area	3880*5184
Nichtvision	Aperture	1.8±5%
Night vision	Optical Image Stabilization	N/A
camera	Sensor type	78.1°
	Phase focusing	FF
	Flash led	Support 2 infrared night vision lamps
	Software function	Video, Picture
	Size & Technology	6.43 LTPS
	Screen color	16.7 million colors
Display	Туре	OLED
	Resolution	1080*2400 FHD
	Pixel density	409ppi
	Aspect Ratio	20:9
	Screen-to-body ratio	85%
	Brightness	500cd/m2
	Screen contrast	80000:1
Auxiliary	Size & Technology	1.05" IPS

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Screen color         262K           Type         LCD           Resolution         120x240           Pixel density         256ppi           Aspect Ratio         2:01           Screen chothody ratio         72%           Brightness         500cd/m2           Screen contrast         1900/2/10 16:01           mavigation         Support Beidou, Galileo, Glonass, GPS, Three out of four           WIFI         Support 2,495g (802.11ac/a/b/g/n)           FM         Support 1,49 log in headphones to support external playback           OTG         Support           NFC         Support           NFC         Support           NFC         Support           Hall switch         N/A           Infrared remote control         N/A           HotKnot         N/A           HotKnot         N/A           G-sensor         Support           Compass (magnetic)         Support           Compass (magnetic)         Support           Geomagnetism         Support           Geomagnetism         Support           Hard king         O.18s response speed           Goldentification angle         Capacitance touch sensor           Spat	ľ		www.dorland-tech.com
Resolution	screen	Screen color	
Pixel density			
Aspect Ratio   2.01		Resolution	120x240
Screen-to-body ratio   72%     Brightness   500cd/m2     Screen contrast   1900/2/10 16:01     navigation   Support Beidou, Galileo, Glonass, GPS, Three out of four     WIFI   Support 2.4G/5G (802.11ac/a/b/g/n )     Transmission function   FM   Support BT5.1     FM   Support Plug in headphones to support external playback     OTG   Support     N/A   Infrared remote control   N/A     HotKnot   N/A     HotKnot   N/A     G-sensor   Support triaxial     Froximity sensor   Support     Ambient light senor   Support     Compass (magnetic)   Support     Geomagnetism   Support     Geomagnetism   Support     Geomagnetism   Support     Geomagnetism   Support     FT9391EC     Coating     Metal Ring     0.18s response speed     300° identification angle     Capacitance touch sensor     Spatial resolution 564 DPI     Alardware   Fadi Charge   Support     Rapid Charge   Support     Rapid Charge   Support     Touch panel     IC   GT9885     Sensor technology   Capacitive touch screen     Material   Coming GG3     Fitting method with Display   Full fit     Power button   Support     Power button   Support     Power button   Support     Support     Power button   Support		Pixel density	256ppi
Brightness   500cd/m2		Aspect Ratio	2:01
Screen contrast   1900/2/10 16:01		Screen-to-body ratio	72%
Navigation		Brightness	500cd/m2
WIFI		Screen contrast	1900/2/10 16:01
Bluetooth   Support BT5.1		navigation	Support Beidou, Galileo, Glonass, GPS, Three out of four
function         FM         Support / Plug in headphones to support external playback           OTG         Support           NFC         Support           ARD         Support           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           Geomagnetism         Support           FT3931EC         Coating           Metal Ring         0.18s response speed           360° identification angle         Capacitance touch sensor           Spatial resolution 564 DPI         Spatial resolution 564 DPI           Hardware features         Rapid Charge         Support           Touch panel         IC         G79885           Sound Amplifier         Intelligent power amplifier, AW88194           IC         G79885           Sensor technology         Capacitive touch screen           Material         Corning GG3           Fitting method with Display         Full fit           Physical but		WIFI	Support 2.4G/5G ( 802.11ac/a/b/g/n )
OTG	Transmission	Bluetooth	Support BT5.1
NFC   Support	function	FM	Support / Plug in headphones to support external playback
Hall switch   N/A		OTG	Support
Infrared remote control   N/A		NFC	Support
Sensor         N/A           G-sensor         Support triaxial           Proximity sensor         Support           Ambient light senor         Support           Compass (magnetic)         Support           Geomagnetism         Support           Gyroscope         Support           FT9391EC         Coating           Metal Ring         Metal Ring           0.18s response speed         360° identification angle           Capacitance touch sensor         Spatial resolution 564 DPI           Hardware features         Wireless charge         Support           Hard coulometer         Support           Rapid Charge         Support           Sound Amplifier         Intelligent power amplifier, AW88194           Touch panel         IC         GT9885           Sensor technology         Capacitive touch screen           Material         Corning GG3           Fitting method with Display         Full fit           Physical button         Volume button         Support		Hall switch	N/A
Sensor         Support triaxial           Proximity sensor         Support           Ambient light senor         Support           Compass (magnetic)         Support           Geomagnetism         Support           Unlock method         Side fingerprint recognition         FT9391EC           Coating         Metal Ring           Metal Ring         0.18s response speed           360° identification angle         Capacitance touch sensor           Spatial resolution 564 DPI         Support           Hardware features         Hard coulometer         Support           Hard coulometer         Support           Sound Amplifier         Intelligent power amplifier, AW88194           IC         GT9885           Sensor technology         Capacitive touch screen           Material         Corning GG3           Fitting method with Display         Full fit           Physical buttons         Yolume button         Support		Infrared remote control	N/A
Sensor         Proximity sensor         Support           Ambient light senor         Support           Compass (magnetic)         Support           Geomagnetism         Support           Unlock method         Side fingerprint recognition         FT9391EC           Coating         Metal Ring           0.18s response speed         360° identification angle           Capacitance touch sensor         Spatial resolution 564 DPI           Hardware         Hard coulometer         Support           features         Rapid Charge         Support           Rapid Charge         Support           Touch panel         IC         GT9885           Sensor technology         Capacitive touch screen           Material         Corning GG3           Fitting method with Display         Full fit           Physical buttons         Yolume button         Support		HotKnot	N/A
Ambient light senor Support Compass (magnetic) Support Geomagnetism Support  Gyroscope Support  FT9391EC Coating Metal Ring 0.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Wireless charge Support  Hardware features  Wireless charge Support Hard coulometer Support Rapid Charge Support Sound Amplifier Intelligent power amplifier, AW88194  Touch panel  Touch panel  Physical Physical Physical Buttons  Ambient light senor Support Support Capacitive touch screen Volume button Support		G-sensor	Support triaxial
Compass (magnetic)SupportGeomagnetismSupportGyroscopeSupportUnlock methodFraction of the property of the pro	Sensor	Proximity sensor	Support
Geomagnetism Support  Gyroscope Support  FT9391EC  Coating  Metal Ring  0.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Hardware features  Wireless charge Support  Hard coulometer Support  Rapid Charge Support  Rapid Charge Support  Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display Full fit  Physical buttons  Physical buttons  Geomagnetism Support  FT9391EC  Coating  Metal Ring  0.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Support  Full fit  Support  Volume button  Support		Ambient light senor	Support
Unlock method  Unlock method  Unlock method  Side fingerprint recognition  Wetal Ring  0.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Wireless charge Hardware features  Hard coulometer Support  Hard coulometer Support  Rapid Charge Sound Amplifier  Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display  Physical buttons  Physical buttons		Compass (magnetic)	Support
Unlock method Unlock method Unlock method Unlock method Unlock method  Side fingerprint recognition  Metal Ring  0.18s response speed  360° identification angle  Capacitance touch sensor  Spatial resolution 564 DPI  Bupport  Hard coulometer Support  Hard coulometer Support  Rapid Charge Support  Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display Full fit  Power button Volume button Support		Geomagnetism	Support
Unlock method Unlock method Unlock method Unlock method  Side fingerprint recognition  Metal Ring  0.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Wireless charge Support Hard coulometer Support Rapid Charge Support  Rapid Charge Support  Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen Material Corning GG3 Fitting method with Display Full fit Power button  Physical buttons  Coating Metal Ring  0.18s response speed 360° identification angle Capacitance touch sensor Support  Support  Capacitance touch sensor Support  Support  Support  Volume button  Support		Gyroscope	Support
Unlock method  Side fingerprint recognition  Acceptable in the part of the par			FT9391EC
Unlock method  Side fingerprint recognition  O.18s response speed 360° identification angle Capacitance touch sensor Spatial resolution 564 DPI  Hardware features  Wireless charge Hard coulometer Support Rapid Charge Support Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885 Sensor technology Capacitive touch screen Material Corning GG3 Fitting method with Display Full fit Physical buttons  Power button Support			Coating
Hardware features  Touch panel  Physical buttons  Physical buttons  Touch panel  Physical buttons  Touch panel  Physical buttons  Touch panel  Amage Capacitance touch sensor Spatial resolution 564 DPI  Support Support Support Support Support Intelligent power amplifier, AW88194  Capacitive touch screen Capacitive touch screen  Corning GG3 Fitting method with Display Full fit Power button Support			Metal Ring
Capacitance touch sensor  Spatial resolution 564 DPI  Wireless charge Support  Hard coulometer Support  Rapid Charge Support  Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display Full fit  Physical buttons  Capacitance touch sensor  Support  Cupport  Capacitance touch sensor  Support  Support  Support  Support  Volume button Support	Unlock method	Side fingerprint recognition	0.18s response speed
Hardware features  Hard Coulometer  Support  Hard coulometer  Support  Support  Rapid Charge Support  Sound Amplifier Intelligent power amplifier, AW88194  IC  GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display  Physical buttons  Physical buttons  Support  Support  Support  Support  Support  Support  Support  Support			360° identification angle
Hardware features    Hard coulometer   Support			Capacitance touch sensor
Hardware features  Hard coulometer  Rapid Charge Support  Sound Amplifier  Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display  Physical buttons  Physical buttons  Figure 1  Figure 1  Figure 2  Support  Support  Support  Support  Support  Volume button  Support			Spatial resolution 564 DPI
Features  Rapid Charge Support Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885 Sensor technology Capacitive touch screen  Material Corning GG3 Fitting method with Display Full fit Power button Support Volume button Support		Wireless charge	Support
Sound Amplifier Intelligent power amplifier, AW88194  IC GT9885  Sensor technology Capacitive touch screen  Material Corning GG3  Fitting method with Display Full fit  Physical buttons  Physical Volume button Support  Volume button Support	Hardware	Hard coulometer	Support
Touch panel    IC   GT9885	features	Rapid Charge	Support
Touch panel  Sensor technology  Capacitive touch screen  Material  Corning GG3  Fitting method with Display  Full fit  Power button  Support  Volume button  Support		Sound Amplifier	Intelligent power amplifier, AW88194
Physical buttons    Description		IC	GT9885
Physical buttons  Material Corning GG3  Fitting method with Display Full fit  Support  Volume button Support	Touch panel	Sensor technology	Capacitive touch screen
Physical buttons  Power button Support  Volume button Support		Material	Corning GG3
Physical Volume button Support		Fitting method with Display	Full fit
buttons Support	-	Power button	Support
Custom key function Support		Volume button	Support
	Snorrua	Custom key function	Support

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Virtual buttons	Home button	Support
	Menu button	Support
	Return button	Support
	Speaker	1217BOX AAC
Ele etric	Motor	0827, Flat wire motor
Electric	Receiver	0809 Shrapnel type, AAC
acoustic devices	Mic	AAC, Silicon wheat
devices	Notify light	Support
	Buttun LED	N/A
D =t	Headphone port	Yes Type-c
Port	Charger interface	Type-c
	Capacity	6000mAh
	Fully charge and discharge frequency	400 times
Battery	Material	Lithium cobalt oxide
ballery	Voltage	4.4V
	Battery capacity factor	1.5
	Discharge coefficient	MAX 1.2C
	Battery density ratio	639Wh/L
So	ftware function	Description
	System navigation	Gesture navigation, 3-button navigation
	Smart gesture	Support supports gestures based on the actual situation.
	Smart gesture	This function is turned off by default
	Air gesture	N/A
	Communication	Support, intelligent answer and wake up when picking up
	somatosensory	the device. This function is off by default
System		Support three finger screen capture, three finger entering
function	System somatosensory	the camera, three finger sliding up to start split screen and
ranction		anti touch mode. This function is off by default
	FOTA upgrade OTA	Support
		English, Spanish, Portuguese (Brazil), Portuguese
	Supported languages	(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

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		www.donand-tech.com
	Graphic format	Support JPEG, BMP, GIF,PNG etc.
	Game	Support
	Applications	Support
Other software	Market	Support
	Share	Support
		Compass, Noise test, Pic Hanging, Gradienter,
	Software Toolbox	HeightMeasure, Magnifier, Protractor, Plumb Bob, Alarm
		bell, Flashlight, Pedometer
Accessories		Description
Package Contents (Standard)	Cellphone	x1
	Type-C USB Cable	x1
	Charger	x1
	Anti-explosion film	X1 Posted on the screen