

Dorland Industrial Intrinsically Safe Smartphone EX_08

Developed by Beijing Dorland System Control Technology Co. Ltd., the industrial Intrinsically Safe Smartphone Ex_08 adopts advanced technology with intrinsically safe circuit, 6.088" 19.5:9 touch screen and 8M (Front Camera) & 16M+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, Glonass, BEIDOU and other functions are suitable for outdoor construction and pipeline inspection. Ex_08 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 21.2840

OS: Android 10.0

Screen: 6.088 inches, 19.5:9 720*1560

Memory: 6GB+128GB

Platform: MTK6771 Helio P60 8core

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

Battery: 8500mAh

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

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

Size: 164.6*81.2*16.8mm

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

USB interface: Type C

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

GPS: GPS, GLONASS, BEIDOU

Bluetooth: 5.0 Side fingerprint identification: Support



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Certificate parameters		Description
Certificate parameters	Ex-mark	Ex ib IIC T4 Gb / Ex ibD 21 T130°C
	Certification No.	CCRI 21.2840
	IP Grade	IP68
Product overview		Description
Product overview	Unit weight	322.6g (including battery)
	Dimensions (mm)	164.6*81.2*16.8mm
	Operating system	Android 10.0
Hardware configuration		Description
CPU	Model	MTK6771 Helio P60
	Feature	8 core
	Framework	4xCortex-A53 up to 2.0GHz 4xCortex-A73 up to 2.0GHz
	Technology	12nm
GPU	GPU model	ARM Mali-G72-2400M pixel/sec@800MHz
Video	Video encode	1080P 30fps H.264/H.265
	Video decode	1080P30fps H.264/H.266
Network	Network	GSM/WCDMA/FDD
	Frequency	GSM: B2/3/5/8 WCDMA: B1/2/4/5/8 FDD(B1/2/3/4/5/7/8/12/13/17/19/20/25/26/28A/28B/66)
	EDGE/GPRS	SUPPORT
Storage	RAM	6GB /DDR4
	ROM	128GB /DDR4
	SIM card type	SUPPORT Nano SIM+Nano SIM/Nano SIM+TF card
	Memory card type	T-flash card
	Expanded memory	256GB,The maximum support is 2TB (64GB and above are compatible with the computer format, and the mobile phone format extension is required)
Front Camera	Front Camera 8MP	
	Sensor	OV8858
	Sensing area	1/4inch
	Pixel area	3296*2512
	Aperture	F/2.2
	Optical Image Stabilization	N/A
	Sensor type	80°
	PDAF	N/A
	Flash led	N/A
Software function	Video, Picture, Gif, Filter, Beauty, Brand watermark, Mirror	
Rear	Rear Camera 16MP+8MP+2MP+30W	

Camera	Sensor	OV16880
	Sensing area	1/3.06
	Pixel area	4672*3504
	Aperture	F/2.0
	Optical Image Stabilization	N/A
	Sensor type	78.6°
	PDAF	N/A
	Flash led	Support
	Software function	Picture, Portrait, AI camera, Water Mark, Night Mode, Pro Mode, HDR, Gif, Filter, Beauty, Panorama, Time Lapse, Intelligent Scanning
Display	Size & technology	6.088 IN-CELL
	Screen color	16.7M
	Type	LCD
	Resolution	720*1560
	Pixel density	282ppi
	Aspect Ratio	19.5:9
	Screen-to-body ratio	86.80%
	Brightness	420cd/m2 (MIN)
	Screen contrast	1500 (TYP)
Transmission function	navigation	Support, GPS+Glonass+Beidou
	WIFI	Support, 2.4G (802.11a/b/g/n)/5G
	Bluetooth	Support, BT5.0
	FM	Support, Plug in the earphone adapter cable to support external playback
	OTG	Support
	NFC	Support, Google pay
Sensor	G-sensor	Support, Triaxial
	Proximity sensor	Support
	Ambient light sensor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support
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	Rapid Charge	Support Maximum charge 12V/2A

features	Sound Amplifier	Smart PA, AW8898
Touch panel	Panel technology	Double layer multipoint
	IC	9911CAC-01
	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	1225 box single box horn rated 1.2W, maximum 1.8W
	Motor	827
	Receiver	1008 Shrapnel type
	Mic	Silicon wheat
	Notify light	Support
Port	Headphone port	Support
	Charger interface	Type-c
Battery	Capacity	8500mAh
	Working hours	96h
	Standby duration	648h
	Talk time	39h
	Voltage	3.8V
Software function		Description
System function	System navigation	Gesture navigation, 3-button navigation
	Smart gesture	Support Gesture support is subject to the actual situation, and this function is turned off by default
	Air gesture	N/A
	Communication somatosensory	Support Flip mute, intelligent answer and wake up when picking up the device. This function is off by default
	System somatosensory	Support Three finger screen capture, three finger entering the camera, three finger sliding up to start split screen and anti touch mode. This function is off by default
	FOTA upgrade OTA	Support


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CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: **CCRI 21.2840**

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 Smartphone
Type of Product: EX_08
Marking: Ex ib IIC T4 Gb / Ex ibD 21 T130°C
Technical Documents: Q/DLM 004-2021
Drawing No.: EX_08 BZ01

Note(s):

1. The rated voltage is DC 3.8V, Powered by a dual-protected polymer lithium-ion battery, Model: Ex battery054, 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: 23.12.2021

Valid till: 22.12.2026

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.ccrirc.com.cn/Home> Tel/fax: 010-89268018