

## DORLAND Industrial Intrinsically Safe 5G Smartphone

### Aloha\_5G PRO

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone Aloha\_5G PRO, using 5g advanced technology, intrinsically safe circuit design, aggressive appearance, strong body. The mobile phone adopts a 6.583 "high-definition screen, with a rear four shot 108 + 20+ 16MP, and supports face recognition and standard NFC. Its waterproof and dust-proof performance reaches the international IP68 standard.

In addition, it supports fingerprint one key unlocking, Bluetooth, WiFi and other functions to meet the reading and writing requirements of various scenes. We have also configured GPS+ GLONASS+ Beidou+Galileo positioning and other functions suitable for outdoor construction and pipeline inspection, which can cooperate with OA office system, patrol positioning system, data acquisition system and other applications. It is especially suitable for hazardous explosion environment, such as petroleum, chemical, pharmaceutical, oil depot, tank farm and other dangerous places with combustible and explosive gas, which is convenient for users to communicate with production and scheduling in time.

**Protection Grade:** IP68

**Marking:** Ex ib IIC T4 Gb / Ex ibD 21 T130°C

**Certificate No.:** CCRI 20.2573

**OS:** Android 12.0

**Screen:** 6.583inch, FHD+, 1080×2408 FHD+

**Memory:** 12GB RAM(12GB+Up to 8GB Extended RAM)  
+256GB ROM uMCP

**CPU:** MTK Dimensity 1080 Octa Core 2.6GHz

2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH

**Cameras:** 108M(rear)+20M(night vision)+16M(Wide Angle)  
32MP(Front)

**Battery:** 8000mAh/10000mAh Battery voltage: 4.45V

**Frequency:**

GSM (B2/3/5/8)

WCDMA (B1/2/4/5/6/8/19) CDMA: BC0/BC1/BC10

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

TDD: B34/38/39/40/41

NR: N1/N3/N7/N28/N38/N41/N77/N78/N79

**NFC:** yes



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**Fingerprint ID:** fingerprint unlocking

**GPS:** GLONASS, BEIDOU, Galileo, GPS(four choose four)



ADD: Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China.

Authentication parameters		Description
Authenti cation paramet ers	Marking	Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db
	Certificate No.	CCRI 20.2573
	IP code	IP68
Product overview		Description
Product overview	Unit weight (including battery)	376g
	Dimensions (mm)	178.46*83.1*17.89mm
	Operating system	Android 12.0
Hardware configuration		Description
CPU	Model	MTK Dimensity 1080 Octa Core 2.6GHz
	Feature	octa-core 2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH
	Framework	ARM Cortex A78/Cortex A55
	Technology	6nm
GPU	GPU model	Arm Mali-G68 MC4
Video	Video encode	FHD+(21:9)@120fps MPEG-4 : 720 x 480@30 fps H.263 : 640 x 480@30 fps H.264/265 : 4K/2K 30fps
	Video decode	MPEG-4 : 1080p@60 fps/60 Mbps H.263 : 1080p@60 fps/60 Mbps H.264/265/VP-9 : 4K2K@30 fps/100Mbps
network	Network	GSM/WCDMA/CDMA/FDD/TDD/NR
	Frequency	GSM(B2/3/5/8) WCDMA(B1/2/4/5/6/8/19) CDMA: BC0/BC1/BC10 FDD: B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28A/28B/66) TDD: B34/38/39/40/41 NR: N1/N3/N7/N28/N38/N41/N77/N78/N79
	EDGE/GPRS	SUPPORT
Storage	memory	12GB RAM(12GB+Up to 8GB Extended RAM)+256GB ROM uMCP
	SIM card type	SUPPORT Nano Sim card+Nano Sim card+T card (choose two from three)
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
<b>Front Camera 32MP</b>		

<b>Front Camera</b>	Sensor	SONY IMX616-AAJH5-CM
	Sensing area	1/2.7inch 5P
	Pixel area	32M (6560*4928)
	Aperture	F/1.8±5%
	Optical zoom	N/A
	Field of view angle	83.84°
	Focus mode	FF
	Flash led	N/A
	Software function	Video、Picture、UHD、Gif、Filter、Beauty、Brand watermark、Mirror
<b>Rear Camera 108MP (main camera) + 20MP (night vision camera) + 16MP (wide-angle camera)</b>		
<b>Rear Camera</b>	Sensor	Samsung S5KHM2SP03-FGX9
	Sensing area	1/1.5 inch 7P
	Pixel area	12000*9000 108MP
	Aperture	F/1.75±5%
	Optical zoom	N/A
	Field of view angle	82°(Diag)
	Focus mode	PDAF
	Flash led	Support
	Software function	HDR、Water Mark、Night Vision、Video、Picture、Pro Mode、Potrait、Gif、Panorama、Intelligent Scanning
<b>Night vision camera</b>	Sensor	SONY IMX350 20MP
	Sensing area	1/2.8inch 6P
	Pixel area	20M (5184*3880)
	Aperture	F/1.8 ± 5%
	Optical zoom	N/A
	Field of view angle	78.1°(Diag)
	Focus mode	N/A
	Flash led	Support infrared night vision lights / Not Support Flash led
	Software function	Video、Picture
<b>Wide-angle camera</b>	Sensor	OmniVision OV16B10
	Sensing area	1/2.8 inch 6P
	Pixel area	4672*3504 16MP
	Aperture	F/2.2±5%
	Optical zoom	N/A

	Field of view angle	117.3°(Diag)
	Focus mode	AF
	Flash led	N/A
	Software function	Video、 Picture、 Macro
<b>Mobile phone display</b>	Size & technology	6.583inch IPS Waterdrop screen
	Screen color	16.7 million colors
	Type	in-cell
	resolving power	1080*2408 FHD+
	Pixel density	401PPI
	Screen aspect ratio	20:9
	Screen-to-body ratio	85%
	Brightness	400cd/m2/(TYP) 480cd/m2/
	Screen contrast	1500:1(TYP)
<b>Touch panel</b>	Panel technology	Multi-touch
	IC	FT8722
	Sensor technology	Capacitive touch, Incell architecture
	Material	GG3
	Fitting method	full lamination
<b>Transmission function</b>	navigation	Support (Beidou, Galileo, Glonass, GPS) Four out of four
	WIFI	Support Wi-Fi6(ax/ac/a/b/g/n)
	Bluetooth	Support BT5.2
	FM	Support
	OTG	Support
	NFC	Support
<b>Sensor</b>	Hall switch	N/A
	Infrared remote control	N/A
	HotKnot	N/A
	G-sensor	Support
	Proximity sensor	Support
	Ambient light sensor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support

<b>Unlock method fingerprint</b>	fingerprint location	Side fingerprint
	sensor	SW9022
	Coating	Fuel injection
	With or without metal ring	yes
	responding speed	<0.2s
	Recognition angle	360° recognizable
	Induction method	Capacitive sensor
	Spatial resolution	508DPI
<b>Hardware features</b>	Wireless charge	Support
	Hard coulometer	Support
	Rapid Charge	Support 66W
	Sound Amplifier	Smart PA AW88261
<b>Physical buttons</b>	Power button	Support
	Volume button	Support
	Custom key function	Support
<b>Virtual buttons</b>	Home button home	Support
	Menu button	Support
	Return button	Support
<b>Electric acoustic devices</b>	Speaker	1216 speaker BOX, dual speaker, stereo surround sound
	Motor	1027 flat motor
	Receiver	0809 cartridge earpiece
	Mic	Silicon MIC, dual mic noise reduction
	Notify light	Support
	Buttun LED LED	N/A
<b>Port</b>	Headphone port	Yes(Type-c)
	Charger interface	Type-c
<b>Battery</b>	Capacity	8000mAh/10000mAh
	frequency	500 times(Safe charging and discharging frequency)
	Material	Lithium cobalt oxide
	Voltage	4.45V
	battery capacity factor	1.8
	discharge coefficient	MAX 1.2C

	Battery density ratio	680Wh/L
<b>Housing</b>	Housing structure	Two-shot injection
	Housing material	PC+10% fiber+TUP90 degree
<b>Software function</b>		<b>Description</b>
<b>System function</b>	System navigation	Gesture navigation, "three button" navigation
	Smart gesture	Three finger screenshot, three finger access to camera, two finger volume adjustment, double tap wake-up, unlock
	Air gesture	N/A
	Communication somatosensory	N/A
	System somatosensory	N/A
	FOTA upgrade OTA	Support
	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)
<b>Entertainment features</b>	Video playback	.avi.mp4, .3gp, .3g2, .3gpp, .3gpp2, .m4v.flv, .f4v.webm, wmv, .asf.mov, .qt.ts, .m2ts, .mts.mkv
	Video produce	Highest support @30fps video shooting
	Audioplayer	Support MP3, M4A, AAC, MKA, AMR, WMA/RA
	Graphic format	Support JPEG, BMP, GIF, PNG etc.
	Game	Support
	Applications	Support
<b>Other software</b>	Market	Support
	Share	Support
	Software Toolbox	Compass、SoundMeter、Pic Hanging、Gradienter、HeightMeasure、Magnifier、Protractor、Plumb Bob
	Privacy protection, visitor mode	N/A
<b>Accessories</b>		<b>Description</b>
<b>Package Contents (Standards)</b>	Cellphone	x1
	Type-C USB Cable	x1
	Charger	x1

rd)	Anti-explosion film (Posted on the screen)	x1
	Anti-explosion film	x1
	Card Slot Opener	x1
	Packing box	x1
	manual	x1





		中国认可 检测 TESTING CNAS L0738
	170021131268	
<b>CONFORMITY CERTIFICATE OF EXPLOSION-PROOF</b>		
Certificate No.:		CCRI 20.2573
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:	Aloha_5G	
Marking:	Ex ib II C T4 Gb / Ex ibD 21 T130°C	
Technical Documents:	Q/DLM 008-2020	
Drawing No.:	Aloha_5G-00	
Note(s):	1.Power supply by dual protection rechargeable lithiumion battery with rated voltage 3.8VDC, nominal napacity:8000mAh; 2.Ambient temperature range:-20°C≤Ta≤+60°C; 3. IP code:IP68 @1.5m,30min.	
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:	12.17.2020	
Valid till:	12.16.2025	
Authorize:	 	
<b>Test Center Of China Coal Research Institute</b> (煤炭科学技术研究院有限公司检测中心)		
(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 Tel/fax: 010-89268018		
The query url of Explosion-proof Certificate: <a href="http://www.ccritc.com.cn/Home">http://www.ccritc.com.cn/Home</a>		



## CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. 2021161606730108

### NAME AND ADDRESS OF THE APPLICANT

Beijing Dorland System Control Tech. Co., Ltd.  
11-A1, 10th Floor, Building 2, Courtyard 1, Wangzhuang Road, Haidian District, Beijing

### NAME AND ADDRESS OF THE MANUFACTURER

Beijing Dorland System Control Tech. Co., Ltd.  
11-A1, 10th Floor, Building 2, Courtyard 1, Wangzhuang Road, Haidian District, Beijing

### NAME AND ADDRESS OF THE FACTORY

Shenzhen Yunji Intelligent Technology Co., LTD  
202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Kukeng Dafu Industrial  
Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen

### NAME, MODEL, AND SPECIFICATION

5G Smartphone  
Aloha\_5G (电源适配器: HJ-FC016K7-CCC 输出: 5.0VDC 2.0A 或 7.0VDC 2.0A 或 9.0VDC 2.0A)

### THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

YD/T2583.18-2019, GB 4943.1-2011, GB/T 19484.1-2013, GB/T 22450.1-2008, YD/T  
1592.1-2012, YD/T 1595.1-2012, YD/T2583.14-2013

This is to certify that the above mentioned products have met the requirements of  
implementation rules for compulsory certification (REF NO. CNCA-C16-01: 2014).

**DATE OF ISSUE:** June 10, 2022 **DATE OF EXPIRY:** January 20, 2026

**Validity of this certificate is subject to positive result of the regular  
follow up inspection by issuing certification body until the expiry date.**

Date of original certification: March 25, 2021

This certificate can be verified through CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)

Accredited by China National Accreditation Service for Conformity Assessment CNAS C066-P



魏昊

Signed: Wei Hao



**CHINA CYBERSECURITY REVIEW TECHNOLOGY AND CERTIFICATION CENTER**

A10 Chaowai Street • Beijing • 100020 • China <http://www.isccc.gov.cn> 010-82261200

P 0007478

# 中华人民共和国工业和信息化部 电信设备进网试用批文

批文号: 00-F684-218627

根据《中华人民共和国电信条例》及国家有关规定，  
经工业和信息化部审查，同意下述电信设备接入公用电  
信网试用，特发此批文。

申请单位: 北京德兰系统控制技术有限公司

生产企业: 北京德兰系统控制技术有限公司

设备名称: 5G数字移动电话机

设备型号: Aloha\_5G

设备产地: 广东省深圳市

试用范围: 不限

试用规模: 不限

备 注: 1) 该设备支持NR NSA/NR SA/TD-LTE/LTE FDD/TD-SCDMA/WCDMA/cdma2000  
/CDMA 1X/GSM制式; 2) 该设备支持5G-增强移动宽带 (eMBB) 技术; 3) 该  
设备为双卡双待移动电话机; 4) 操作系统: Android



签发日期: 2023 年 5 月 29 日

有效期至: 2025 年 5 月 29 日