Dorland System
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DORLAND
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DORLAND Industrial Intrinsically Safe Smartphone Xtalki50+

Dorland System Control Technology Co., Ltd. recently launched the Industrial Intrinsically Safe Smartphone & explosion-proof professional walkie-talkie Xtalki50+, adopting advanced technology, intrinsically safe circuit design, appearance domineering and solid body. The smart phone uses a 4.0-inch multi-touch screen with a front 5 M+13 M pixel ultra-high-definition camera. Its waterproof and dustproof performance meets the international IP68 standard. In addition, this intercom mobile phone DMR digital analog two-in-one supports standard definition. All voice and data services, as well as various encryption methods, high power 4W, low power 2W, U segment 400-450/440-480/350-390MHz/police 350-400MHz/V segment 136-174MHz; support LTE TDD /FDD 1.4G /1.8G /400M / 600M private network, support NFC, Bluetooth and other functions. We also have GPS navigation, altitude measurement, compass and other functions suitable for outdoor construction, pipeline inspection, etc., which can be used in various applications such as OA office system, inspection and positioning system, and data acquisition system. It is especially suitable for the harsh environment of dangerous explosions, such as petroleum, chemical, pharmaceutical, oil depot, tank area and other dangerous places with flammable and explosive gases, which is convenient for users to communicate with production and dispatch.



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Explosion-proof parameter	
Explosive-proof Grade	Ex ib IIC T4 Gb / Ex ibD 21 T130℃
Certification No.	CCRI 19.2183
Protection Grade	IP68
Intercom function	DMR digital analog two-in-one, supports all voice and data services defined by the standard, and various encryption methods, high power 4W, low power 2W, U segment 400-450/ 440-480 /350-390 MHz optional, V segment 136 -174MHz;
LTE private network	Support LTE TDD/FDD 1.4G/1.8G/400M/600M private network
LTE public net	LTE China Mobile / China Unicom / China Telecom
Screen	4.0 inches, multi-touch, Capacitive screen, 5-point touch, support gloves, gestures and rain operation;
Main screen material	IPS HD hard screen
Main screen resolution	Resolution（640*1136）
Network Type	Dual card dual standby, standard with two Micro SIM cards, one T card
Network mode	GSM, WCDMA, EVDO,TD-SCDMA,TDD/FDD-LTE
Data service	LTE CAT4/HSPA/TD-SCDMA/1xEV-DO/EDGE/GPRS
Support band	2G: GSM850/900/1800/1900; 3G:WCDMA850/900/1900/2100 LTE-FDD:B1/B3/B5/B8/ LTE-TDD:B38/B39/B40/B41 TD_SCDMA:A/F(B34/B39) EVDO：BC0
Theoretical rate	LTE :CAT4/CAT6 (150Mbps Downlink 50mbps Uplink) WCDMA: Category 24 HSDPA category 7 HSUPA TD_SCDMA: category 14(downlink) category 6(uplink) GSM: Class 12 GPRS, Edge
OS	Android 7.0
CPU	Spreadtrum, six core 1.5GHz
Memory	64GB ROM+4GB RAM
Memory Card	Up to 128GB
Battery	7.6V lithium polymer 2500mAH, can be quickly replaced;
Color	Black
Size	148mm×64mm×30.3mm
Weight	265 g (bare metal) 420 g (with battery) 430g (full)
Feature	IP67, Meet outdoor use needs, GPS, SOS, walkie-talkie
Product Features	
Digital-to-analog intercom	DMR digital analog two-in-one, supports all voice and data services defined by the standard, and various encryption methods, high power 4W, low power 2W, U segment 400-450/ 440-480/ 350-390MHz optional, V segment 136 -174MHz;

Channel knob switch	Professional radio channel rotary switch design, easy to industrial customers blind operation
Public network channel knob switch	Professional radio channel rotary switch design, easy to industrial customers blind operation
Public network intercom	Designed preset POC key public network intercom, intercom software can be integrated to achieve cross-regional intercom
Programmable button	Reserve programmable keys to tailor software applications for specific industry applications
Navigation	GPS/BEIDOU/GLONASS
Battery assembly method	Replaceable battery
Fast charging	Support 2A fast charging
Mic noise reduction function	Silicon bis Mic design, effectively suppressing ambient noise, harsh environment kept clear voice
Sensor	Accelerometer, geomagnetic, distance, ambient light
Sensor type	CMOS
Flashlight	Flash replacement
Fingerprint recognition	Support waterproof fingerprint recognition function
Radio FM	Na
NFC	Support Transmission frequency:13.56MHZ
Horn	Big horn 2W
Working temperature	+60℃ -20℃
Storage temperature	+70℃ -20℃
Camera function	
Camera	Front: 5 million pixels Rear: 13 million pixels
Camera features	Record video, auto focus, digital zoom, flash
Image size	Maximum support 4096*3072 pixels
Video shooting	Maximum support 1920*1080 pixels, 30 frames
Data function	
WLAN	WIFI 802.11 b/g/n, 2.4G
Data interface	USB 2.0
USB interface	Runbo 20Pin interface, support for headset, USB camera
Bluetooth	BT4.0
Phone accessories	
packing list	Host, lithium battery, walkie-talkie antenna, data cable, charger, manual
annex	Charger (optional), 21pin data interface dust cover (optional)



CNAS 中国认可 检测 TESTING CNAS L0738

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CCRITC

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 19.2183

Company:	Beijing Dorland System Control Tech Co.,Ltd.
Address:	Room 11B5,Huajie Plaza Dazhongsi Street,Haidian District, Beijing 100098,P.R.China
Name of Product:	Industrial Intrinsically Safe Smartphone
Type of Product:	Xtalki50+
Marking:	Ex ib ⅡC T4 Gb / Ex ibD 21 T130℃
Technical Documents:	Q/DLM 006-2019
Drawing No.:	Xtalki50+ BZ01
Note(s):	1. Power supply by dual protection rechargeable lithiumion battery with rated voltage 7.6VDC, battery type:Ex Battery 027，5000mAh; 2. IP code:IP68@1.5m/1h.

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 12476.1-2013，GB 12476.4-2010，GB/T 4208-2017

Date of Issue: 8.16.2019

Valid till: 8.15.2024

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 Tel/fax: 010-89268018
The query url of Explosion-proof Certificate: http://www.ccritc.com.cn/Home