Beijing Dorland
System Control
Technology Co., Ltd.

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Dorland Industrial Intrinsically Safe PDA Ex PDA 7100/7200

Newly released by Beijing Dorland System Control Technology Co. Ltd., the industrial intrinsically safe smart handheld terminal ExPDA 7100/7200, adopts advanced technology, designed with intrinsically safe circuit, and with rugged and solid body. This model carries OS Android11.0 and high-performance quad-core CPU, equipped with built-in RFID, barcode scanning, NFC, iris identification, HD cameras, GPS and other modules and functions suitable for outdoor construction and pipeline inspection. It can cooperate with OA office system, checking positioning system and data acquisition system and other applications, especially suitably used in dangerous environment such as petroleum, chemical, pharmaceutical, oil depot, tank farm and other hazardous sites with combustible and explosive gas. This product shall facilitate users' timely communication with the production management.

Protection Grade: IP65
Explosive-proof Grade: Ex ib IIC T4 Gb/Ex ib D21 T130℃
Explosive-proof Certificate No.: CCRI 19.2166



OS: Android 11.0
Screen: 5.2", IPS FHD 1920x1080
RAM+ROM: 3GB+32GB / 4GB+64GB
（6GB+64GB / 6GB+128GB Customization）
Storage Card: SD card up to 128GB
CPU: Cortex-A53 2.5 / 2.3 GHz 8-core
Cameras: Rear 13.0 MP AF, flash; front 5.0 MP
Frequency:

2G GSM850/GSM900/DCS1800/PCS1900
3G WCDMA：B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0
TD-SCDMA：A/F
4G B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/
B28B/B34/B38/B39/B40/B41

Dimensions: 164.2*78.8*17.5mm/164.2mm x 80.0mm x 24.3mm
Battery: 5000mAh/8000mAh
Standby Time: >350 hrs
Working Time: >12 hrs
NFC: yes

Barcode Collection (optional)
1D Module: Zebra SE965 / Honeywell N4313
Pro 1D barcode type:
UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.

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RFID UHF (optional)	
Operating frequency (860-960 MHz, customized frequency band as required)	
Chinese frequency	920-925 MHz
Us frequency	902-928 MHz
European frequency	865-868 MHz（ETSI EN 302 208）
Other frequencies	Other multinational frequency standards (customizable)
engine	Cm2000-1, based on Impinj Indy R2000;
Cm710-1, based on Impinj e710 chip (forthcoming)	
Protocol standard	EPC C1 GEN2 / ISO18000-6C
Antenna parameters	Linearly polarized antenna (1.8 DBI) / circularly polarized antenna (4dbi)
power	1 W (30 DBM, supporting + 5 DBM to + 30 DBM adjustment)
Optional 2 w (33 DBM for Latin America, etc.)	
Card reading distance	Up to 15m (circular polarization, outdoor open environment, Impinj mr6 label);
Up to 7m (linear polarization, outdoor open environment)	
Group read rate	Up to 900 tags / S (circular polarization)
*The card reading distance and group reading rate are related to the actual environment	
NFC (optional)	
Operating frequency	13.56 MHz
Protocol standard	Iso14443a / B, iso15693, nfc-ip1, nfc-ip2, etc
Label standard	M1 card (S50, S70), CPU card, NFC tag, etc
Read write distance	2-4 cm
*Four core optional, eight core standard	
Bar code acquisition (optional)	
One dimensional scanning engine	Zebra: SE965; Honeywell: N4313
Support one-dimensional barcode type	UPC / ean, code128, code39, code93, code11, interleaved 2 of 5, discrete 2 of 5, Chinese 2 of 5, CodeBar, MSI, RSS, etc
2D scanning engine	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
Support 2D barcode type	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal codes: US Postnet, US planet, UK postal, Australian postal, Japan postal, Dutch postal (KIX), etc

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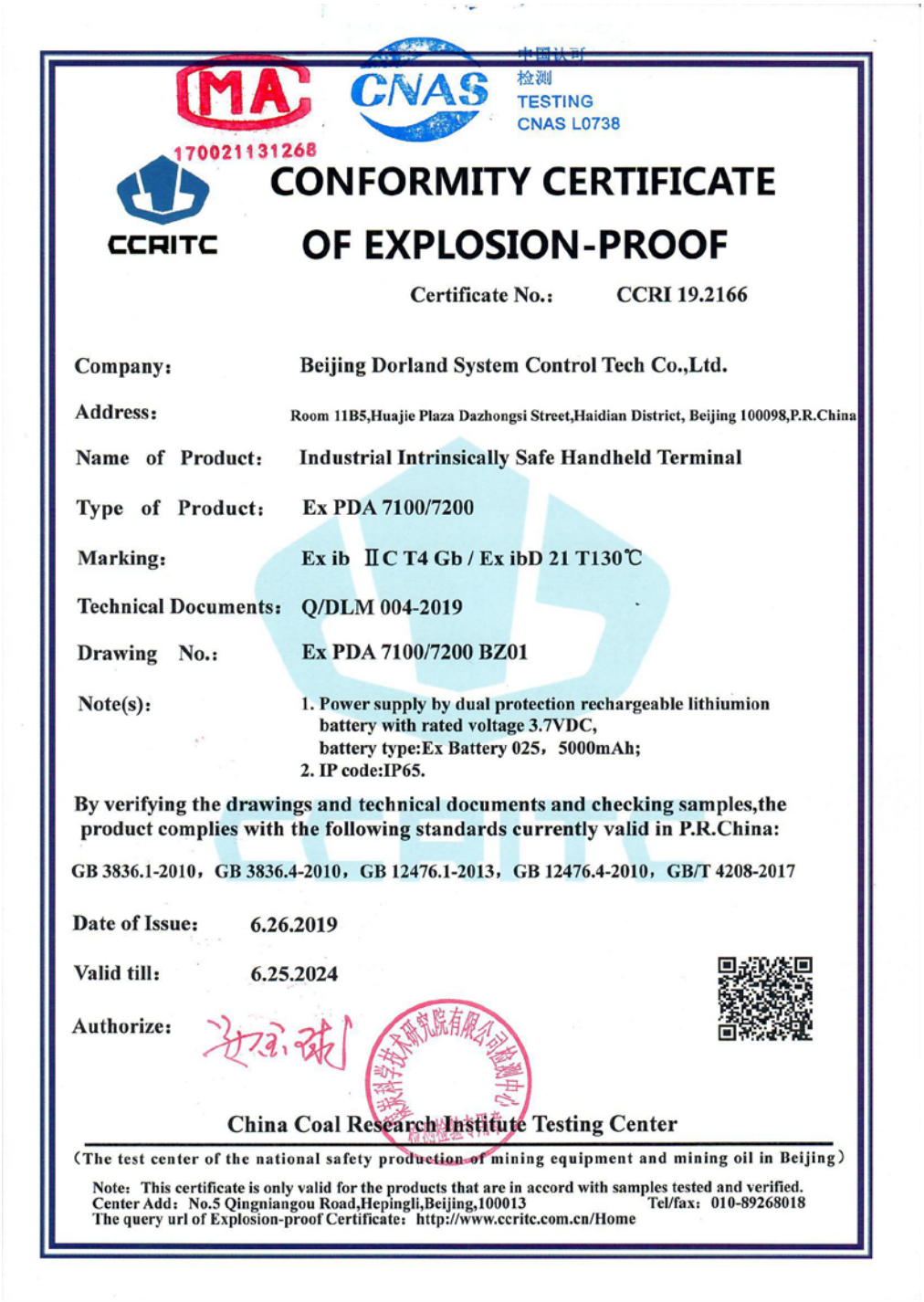
ADD: Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China.



CNAS 中国认可 检测 TESTING CNAS L0738

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CCRITC

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 19.2166

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 Handheld Terminal
Type of Product:	Ex PDA 7100/7200
Marking:	Ex ib ⅡC T4 Gb / Ex ibD 21 T130℃
Technical Documents:	Q/DLM 004-2019
Drawing No.:	Ex PDA 7100/7200 BZ01
Note(s):	1. Power supply by dual protection rechargeable lithiumion battery with rated voltage 3.7VDC, battery type:Ex Battery 025，5000mAh; 2. IP code:IP65.

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: 6.26.2019

Valid till: 6.25.2024

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