

DORLAND Industrial Intrinsically Safe PDA Extremity IS PDA 09

Dorland System Control Tech Co., Ltd. has recently launched the Extremity IS PDA 09, an intrinsically safe intelligent full network industrial grade explosion-proof handheld terminal. It adopts advanced technology, intrinsically safe circuit design, powerful appearance, and sturdy body. This product is equipped with the Android 14 intelligent operating system, using a high-performance processor and powerful configuration. This device can integrate modules and functions such as QR code scanning, NFC reading and writing, GPS positioning, etc. It is suitable for outdoor construction, pipeline inspection, and other functions, and can be used in conjunction with various applications such as OA office systems, inspection positioning systems, data collection systems, etc. Especially suitable for harsh environments with hazardous explosions, such as petroleum, chemical, pharmaceutical, oil depots, tank farms, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users, production, and scheduling.

IP Grade: IP68

Ex-marking: Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db

Certificate No.: CCRI 25.7093X

OS: Android 14

CPU: MT6789, Octa-core, 2*A76 2.2GHz + 6*A55 2.0GHz

Screen: TFT, Size: 6.56-inch 20:9, Resolution: 720*1612, Support wet hand and glove touch

RAM: 8GB LPDDR4

ROM: 128GB UFS2.2 (Optional 8+256GB for batch order)

Camera: Front 32MP, Fixed Focus

Rear Main Camera 48MP, Autofocus, Supports PDAF

Rear Secondary Camera 8MP Wide-angle

WIFI: WIFI 802.11(a/b/g/n/ac) Frequency 2.4G+5.0G Dual-band WIFI, Supports AP seamless roaming

Frequency band: GSM(B2/3/5/8)

WCDMA(B1/2/4/5/8)

TDD(B34/38/39/40/41)

FDD(B1/2/3/4/5/7/8/12/13/17/18/19/20//25/26/28A/28B/30/66)

Bluetooth: BT5.1 (BLE) class1, Transmission Distance: 30m

GPS: Supports GPS/Beidou/Galileo/GLONASS, Supports AGPS, Cold Start Time: <60 seconds

Dimension: 183.1*88.6*24.1mm

Battery: 3.85V/5800mAh

NFC: Support

Data Collection: Fingerprint, QR Code, NFC

Dorland System
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DORLAND
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Product Certificates	
Ex-marking	Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db
Certificate No.	CCRI 25.7093X
IP Grade	IP68
Product Outlook	
Dimension	170.2*80.7*14mm
Weight	About 311g
Product Color	Black+Orange
Hardware Configuration	
CPU	MT6789, Octa-core, two cores of 2.2GHz + six cores of 2.0GHz 2*A76 2.2GHz + 6*A55 2.0GHz
GPU	ARM G57 MC2
Memory	RAM: 8GB LPDDR4X ROM: 128GB UFS2.2 (Optional 8+256GB for batch order)
Operating System	
OS	Android 14
Specification parameters	
Display	Type: TFT Size: 6.56-inch 20:9 Resolution: 720*1612 Brightness: 670 Nit Support wet hand and glove touch
Touch Pannel	PolyRainbow Cover, 5-point capacitive screen, Hardness above 7H, cratch-resistant.
Camera	Front 32MP, Fixed Focus Rear Main Camera 48MP, Autofocus, Supports PDAF Rear Secondary Camera 8MP Wide-angle
Flashlight	True Flash
Buttons	Power & Fingerprint *1, Volume + Key *1, Volume - Key *1, Barcode Scanning Key *2 (Barcode scanning by default)
Indicator Light	Indicator light *1, R/G dual-color light: Red constant when charging, green constant when fully charged (above 90%), red flashing when low battery (0-15%), off when discharging.
Audio	Speaker*1 7Ω/1.5W, Earphone*1, Dual-MIC, Motor*1, Audio SMART PA
Sensor	Light Sensor, Proximity Sensor, 3D Accelerometer, Geomagnetic Sensor, Gyroscope, Gravity Sensor
Battery	3.85V/5800mAh Battery Life: About 17h24min (Default 70dB volume; Default 300nits screen brightness; Playing 1080P HD video)
Network Connections	
WIFI	WIFI 802.11(a/b/g/n/ac) Frequency 2.4G+5.0G Dual-band WIFI, Supports AP seamless roaming
Bluetooth	BT5.1 (BLE) class1 Transmission Distance: 30m

Frequency band	GSM(B2/3/5/8) WCDMA(B1/2/4/5/8) TDD(B34/38/39/40/41) FDD(B1/2/3/4/5/7/8/12/13/17/18/19/20//25/26/28A/28B/30/66)
GPS	Supports GPS/Beidou/Galileo/GLONASS Supports AGPS Cold Start Time: <60 seconds
Interfaces	
I/O Interfaces	Type C *1 (Charging/Data/Earphone/Reverse Charging 6W)
	TF Card *1, SIM Card *2, 2 of 3 card slot (Micro Sim+TF or Micro Sim+Nano Sim)
	Pogo Pin (Charging) *1
Adapter	
Power Adapter	33W Fast Charge Adapter
Type-C Cable	Type-C Data Cable (1m)
Rugged Features	
Rugged Features	Drop Height: Withstands drops from 1.5 meters onto composite wood flooring, while powered on.
	Working temperature: -20 °C to 60 °C
	Storage temperature: -30 °C to 70 °C
	Humidity: 95% Non-Condensing
	Electrostatic Discharge: Contact Discharge ±8KV, Air Discharge ±12KV
	OVP: Threshold 12V
	EOS: VBUS 300/80us VBAT 300v/20us
Data Collection	Fingerprint Power On/Off & Fingerprint 2-in-1
	QR Code Standard Zebra 4710, Compatible with Newland CM60 and Honeywell 6803FR (long-range scanner).
	NFC Supports ISO18092, ISO14443 A/B, ISO15693 protocols, Mifare compliance, Card reading distance from 0 to 4 cm; Frequency:13.56MHz
Accessories	
Accessories	Hand Strap (Standard)
	Charge Adapter (Standard)
	1m Type-C Cable (Standard)
	Tempered Glass Film (Optional)
	Docking Charger (Optional)



CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 25.7093X

Applicant Company: Beijing Dorland System Control Tech Co.,Ltd.
Production: Beijing Dorland System Control Tech Co.,Ltd.
Name of Product: Intrinsically safe industrial-grade intelligent explosion-proof PDA
Type of Product: Extremity IS PDA 09
Marking: Ex ib II C T4 Gb/Ex ib III C T130°C Db
Technical Documents: Q/DLM 007-2025
Drawing No.: Extremity IS PDA 09 ZZ01
Note(s): See attached page for details

By verifying the drawings, technical documents and checking samples, the product
complies with the following standards currently valid in P.R.China:

GB/T 3836.1-2021, GB/T 3836.4-2021, GB/T 4208-2017

Date of Issue: 8. 5. 2025

Valid till: 8. 4. 2030

Authorize:



CCRI (Beijing) Testing Technology Co., Ltd.

(Beijing Testing Center of Mine Working Equipment and Mining Oils for National Safe Production)

Note: This certificate is only valid for the products that are in accord with samples tested and verified.

Address: Building 6, No.5, Yulong Street, Caiyu Town, Beijing Economic and Technological Development Area (Daxing), Beijing Tel/fax: 010-89268018

The query url of Explosion-proof Certificate: <http://jc.ccrtec.com.cn>



CONFORMITY CERTIFICATE OF EXPLOSION-PROOF (APPENDIX)

Certificate No.: CCRI 25.7093X

1. Rated voltage DC 3.85V, powered by rechargeable lithium-ion battery packs with dual protection.
2. Operating environment temperature: $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$. IP code: IP68 @1.5m, 30min.
3. The suffix "X" indicates that the use of various cable interfaces in hazardous areas is prohibited, and charging and replacing batteries in hazardous areas is prohibited; When conducting data transmission or charging, it is necessary to use specialized connection devices with energy limiting measures that have been evaluated. Please refer to the instructions for usage precautions.
4. Association inspection report number: 2025550594.

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