Dorland System Control Tech Co., Ltd.
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DORLAND Industrial Intrinsically Safe PDA Extremity IS PDA 10

Dorland System Control Tech Co., Ltd. has recently launched the Extremity IS PDA 10, 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 Windows 10/11 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.

Ex-marking: Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
Certificate No.: SYEx25.08348X
IP Grade: IP67

OS: windows 10 (IOT), optional windows 11 (IOT)
CPU: Intel JASPER LAKE N5100
Screen: IPS, 6.5 inch full laminated TFT color full screen,Drop notch 20:9, Resolution: 720*1600
RAM: 8GB LPDDR4
ROM: 128GB EMMC
Camera: Front 5M, Rear 8M, autofocus with flash
WIFI: Wi-Fi 802.11(a/b/g/n/ac) Dual frequency 2.4G+5.8G WIFI
Bluetooth: BT5.0 (BLE) class1 transmission distance: greater than 10m
GPS: GPS+GLONASS
Dimension: 183.1*88.6*24.1mm
Battery: External polymer lithium ion battery7.4V/4000mAh
Battery life: About 6 hours(50% volume sounds, 50% screen brightness, 1080P HD video display by default)
NFC: Support
Data Collection: 2D Barcode Scanner, NFC

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Product Certificates	
Ex-marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
Certificate No.	SYEx25.08348X
IP Grade	IP67
Product Outlook	
Dimension	183.1*88.6*24.1mm
Weight	470g
Product Color	Black
Hardware Configuration	
CPU	Intel JASPER LAKE N5100
GPU	Intel® UHD Graphics 620
Memory	**RAM:** 8GB LPDDR4 **ROM:** 128GB EMMC
Operating System	
Operating System	windows 10（IOT）, optional windows 11（IOT）
Specification parameters	
Display	Type: IPS Size: 6.5 inch full laminated TFT color full screen, Dropnotch 20:9 Resolution: 720*1600, Brightness: 500cd/cm²
Touch Pannel	5 points Capacitive, G+FF, Corning Gorilla Glass, Hardness 6H or higher, scratch-resistant.
Camera	**Front** 5M **Rear** 8M, autofocus with flash
Buttons	Power *1 Volume Adjustment Key (+) *1 Volume Adjustment Key (-) *1 Bar code scanning (left and right)*2
Speaker	Embedded 1Ω/1W speaker x 1 95dB@0.1m
Microphone	single microphone
Sensors	G_sensor *1
Battery	External polymer lithium ion battery 7.4V/4000mAh About 6 hours(50% volume sounds, 50% screen brightness, 1080P HD video display by default)
Network Connections	
WIFI	Wi-Fi 802.11(a/b/g/n/ac) Dual frequency 2.4G+5.8G WIFI
Bluetooth	BT5.0 (BLE) class1 transmission distance: greater than 10m
NFC	Support
2G/3G/4G	750VE LTE FDD: B1/B3/B7/B8/B20 LTE TDD: B40 WCDMA: B1/B5/B8 GSM: 900/1800 China (Unicom, Telecom, Mobile) Europe, Middle East, Africa, Taiwan, Japan

	Optional: 750-VA, LTE-FDD: B2/4/5/12/13/17/18/25/26 LTE-TDD:B41 WCDMA: B2/4/5 CDMA&EVDO: BC0/BC1 GSM: 850/1900 750-VSA, LTE-FDD: B2/4/5/7/8/28 LTE-TOD:B40 WCDMA: B2/5/8 GSM:850/900/1900
GPS	GPS+GLONASS
Interfaces	
I/O Interface	TYPE-C 2.0*1 OTG (Data transmission)
	Standard USB-A port/Data Transfer (3.0)
	TF card *1, Max: 512GB, Nano-SIM * 1
	Pogo Pin (Suitable docking charger DC61J)
Adapter	
Adapter	Input 100-240V AC 0.5A 50/60Hz Chinese standard CCC certification PD3.0 45W
USB cable	C to C
Rugged Features	
Rugged Features	Drop test height:1.5m Composite wood floor working (Power-on state)
	Working temperature: -20 °C to 60 °C
	Storage temperature: -30 °C to 70 °C
	Humidity: 95% Non-Condensing
Data Collection	**2D Barcode Scanner** Optional, Honeywell N3680 hard decode Optical resolution: 5mil Scanning speed: 30 times /s Support code: PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse Maxicode, QR Code, MicroQR, QR Inverse, Aztec, Aztec Inverses, Han Xin, Han Xin Inverse"
	NFC 13.56MHz, Support ISO/IEC 14443A/14443B/15693/18092/mifare protocol, reading distance: 3-5cm
Accessories	
Accessories	**45W Fast charge adapter and CtoC data cable (standard)**
	Hand-strap (Optional)
	Docking Charger (Optional)
	Vehicle Mount (Optional)
	TP Resist film (Optional)

CMA 210008349143

防爆电气设备
Explosion-proof electrical apparatus

CNAS 中国认可 检测 TESTING CNAS L1016

防爆合格证

Conformity certificate of Explosion-proof

证书编号 Certificate No. SYEx25.08348X

制造商 Manufacturer	北京德兰系统控制技术有限公司
地址 Address	北京市海淀区王庄路 1 号院 2 号楼 10 层 11-A1
生产企业 Factory	北京德兰系统控制技术有限公司
地址 Address	北京市海淀区王庄路 1 号院 2 号楼 10 层 11-A1
产品名称 Name of product	本安型工业级智能防爆 PDA
型号规格 Type specification	Extremity IS PDA 10
防爆标志 Ex-marking	Ex ib IIC T4 Gb; Ex ib IIIC T130℃ Db
产品标准 Product standards	Q/DLM 008-2025
图样编号 Drawing No.	Extremity IS PDA 10ZZ01
备注 Note	1. 产品由两节 576571 锂电池（DC3.7V，4000mAh）串联供电，电池与保护板浇封一体。 2. 严禁于危险场所充电、拆卸及使用插口。 3. 外壳防护等级：IP67。 4. 标称电压：DC7.4V。

经对上述产品图样及技术文件的审查和样品检验，确认符合下列标准：
According to the above examination of product designs drawings and technical documents, and sample inspection, it has been confirmed that the following standards are met:

GB/T 3836.1-2021 爆炸性环境 第 1 部分：设备 通用要求
GB/T 3836.4-2021 爆炸性环境 第 4 部分：由本质安全型“i”保护的设备

批准 Approved by

发证日期 Date of issue 2025-09-17

证书有效期至 Valid date 2030-09-16

机械工业低压防爆电器产品质量监督检测中心
Machinery industry Product Quality Supervisory and Test Center of Low-voltage Explosion-proof Electrical Product
沈阳电气传动研究所（有限公司）
Shenyang Electrical Driving Research Institute(Co.,Ltd)

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