DORLAND Industrial Intrinsically Safe Smart Explosion-proof Tablet PC with Windows OS System Tablet14

Dorland System Control Tech Co., Ltd. has recently launched the Ex Tablet 14, an industrial intrinsically safe smart explosion-proof tablet PC with windows OS system. It adopts advanced technology, intrinsically safe circuit design, powerful appearance, and sturdy body. This product adopts the Windows 11 operating system and a 14 inch touch screen design, equipped with a front 5-megapixel camera and a rear 8-megapixel camera. Its waterproof and dust-proof performance meets the international IP65 standard.

In addition, we have also equipped various outdoor construction and pipeline inspection functions such as GPS/ Glonass within the PAD, which can be used in conjunction with OA office systems, inspection positioning systems, data acquisition systems, and other applications. 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 ic IIC T5 Gc / Ex ic IIIC T95℃ Dc
Certificate NO.: SYEx25.08264X
IP Grade: IP65

OS: windows 11/10 (Home / Pro / IOT 64) bit
Screen: 14 inch 16:9 1920*1080
RAM: 16GB DDR5 (4800MHz), Optional: 32GB DDR5 (4800MHz)
ROM: 256GB SSD, Optional: 512G / 1TB
CPU: Intel 12th Generation, Intel i5-1235U / i7-1255U
Cameras: Front: 5.0MP + Rear: 8.0MP
Battery: 11.1V / 4750mAh
Dimension: 366.2*246.9*24.8mm
GPS: Supports single GPS or single Glonass, default GPS
Bluetooth: BT5.1 (BLE) class1, Data transmitted distance：10m
WIFI: Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
Extension Module:
Data Collection: Fingerprint / NFC / 2D Barcode Scanner
Internal Expansion Slots:
M.2 2280 PCIE interface *1, optional SSD
M.2 E-KEY PCIE interface*1, optional Custom module

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Product Certificate	
Ex-marking	Ex ic IIC T5 Gc / Ex ic IIIC T95℃ Dc
Certificate NO.	SYEx25.08264X
IP Grade	IP65
Tech Spec	
Dimensions	366.2*246.9*24.8mm
Weight	2333g
System Configuration	
CPU	Intel 12th Generation, Intel i5-1235U, TDP15W,2P-Cores,8E-Cores,12threads;Speed: 0.9GHz~4.4GHz Optional： i7-1255U, TDP15W,2P-Cores,8E-Cores,12threads;Speed: 1.2GHz~4.7GHz
GPU	Intel® Iris® Xe Graphics eligible
Memory	**RAM** 16GB DDR5 (4800MHz) Optional: 32GB DDR5 (4800MHz) **ROM** 256GB SSD Optional: 512G / 1TB
Operating system configuration	
Operating System	Windows 11 Home (Pro / IOT) 64bit Default Language: English Optional: Windows 10 Home (Pro / IOT) 64bit
Product appearance configuration	
Display	Type: LCD, Size: 14-inch 16:9 Resolution: 1920*1080, Brightness: 1000cd/㎡
Touch Panel	10-Point Captive Screen, G+G; Hardness above 7H; Scratch-resistant; Supports glove touch
Camera	**Front** 5.0MP (USB), **Rear** 8.0MP (USB)
Buttons	Power Button *1, Volume+ key *1, Volume- key *1, Customized key *2 (Default: P1 for opening the Control Center, P2 for opening the camera), F key *1 (Barcode scanning)
Speaker	Built in 4Ω/3W waterproof speaker *2
Microphone	Sensitivity: -38dB±3db
Sensor	G-Sensor
Fan	IPX5 fan *1
RTC Battery	3.0V/220mAh
Battery	4750mAh / 11.1V 8hrs (1080P video playing with system in balanced mode, 320nits screen brightness, 70db volume at 10cm, and WiFi/BT turned off)
Network Connections	
WIFI	Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
Bluetooth	BT5.1 (BLE) class1 Data transmission distance: 10m
4G	4G (M.2 interface, European version) LTE-FDD: B1/3/5/7/8/20/28, LTE-TDD: B38/40/41

5G	5G (optional) NSA n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/ 66/70/71/75/76/77/78/79 SA n1/2/3/5/7/8/12/13/14/ 18/20/25/26/28/29/30/38/ 40/41/48/66/70/71/75/ 76/77/78/79 LTE LTE-FDD B1/2/3/4/5/7/8/ 12/13/14/17/18/19/20/ 25/26/28/29/30/32/66/71 LTE-TDD B34/38/39/40/ 41/42/43/48
GPS	Supports single GPS or single Glonass, default GPS
Interface	
I/O Interfaces	USB3.2 *1, USB2.0 *2
	TYPE-C, Supports Thunderbolt 4
	ϕ3.5mm Standard Earphone Jack *1
	HDMI 2.0a mini *1
	SIM card *1
	TF card *1
	RJ45*1 10M/100M/1000M self-adaptive RJ45*1 10M/100M/1000M self-adaptive (USB2.0), supports Gigabit Ethernet protocol
	RS232 *1, 9 fully functional lines
	DC19V/3.78A ϕ5.5mm power interface *1
	12PIN Pogo Pin (USB & Charging) *1
Standard Accessories & Indicator Lights	
Power Adapter	**AC100~240V, 19V/3.78A 71.82W output** **EU Standard** **Optional: US Standard**
Power Indicator Light	1. Power On: Power indicator remains solid. 2. Power Off: Power indicator turns off. 3. Sleep Mode: Power indicator blinks.
Battery Indicator Light	1. Charging: Charging indicator remains solid (red). 2. Fully Charged: Charging indicator remains solid (green). 3. Large Battery Not Connected: Charging indicator flashes quickly (red). 4. Low Battery (10%) Without Adapter Connected: Charging indicator flashes quickly (red)
Reliability	
Rugged Features	1.2m drop resistance
	Working temperature: -20 °C to 60 °C

	Storage temperature: -30 °C to 70 °C
	Electrostatic Discharge: ±4kV contact discharge, ±8kV air discharge
	Humidity: 95% Non-Condensing
Extension Module	
Data Collection	**Fingerprint** Built in, used for power-on login.
	NFC USB interface, supports ISO14443A, ISO14443B, IOS15693, ISO18092, Felica.
	2D Barcode Scanner Optional, USB interface, Optical Resolution (Scanning Accuracy): ≥3mil Supported Codes: 1D: Code128, EAN-13, EAN-8, UPC-E, UPC-A, ISBN, ISSN, Code11, Interleaved 2 of 5, Code39, Code93, Code32, Codabar, Matrix 2 of 5, Industrial 25, IATA25, MSI Plessey, GS1 DataBar, Plessey, Febraban, Composite 2D: QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode, Han Xin Code, Dotcode
Internal Expansion Slots	M.2 2280 PCIE interface *1, optional SSD
	M.2 E-KEY PCIE interface*1, optional Custom module
Accessories	
Accessories	Handle (Standard)
	DC19V/3.78A adapter (Standard)
	Removable Battery (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. SYEx25.08264X

制造商 Manufacturer	北京德兰系统控制技术有限公司
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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	本安型智能工业级防爆平板电脑
型号规格 Type specification	Ex Tablet14
防爆标志 Ex-marking	Ex ic IIC T5 Gc; Ex ic IIIC T95℃ Dc
产品标准 Product standards	Q/DLM 002-2025
图样编号 Drawing No.	ZZ01
备注 Note	1. 产品由三节 3072135 锂电池（DC3.7V，4750mAh）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：IP65。 4. 标称电压：DC11.1V。

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

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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
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