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DORLAND Industrial Intrinsically Safe Notebook Ex NB09S (Standard version)

Tel: +86-10-62198496

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Developed by Beijing Dorland System Control Tech Co., LTD., the industrial intrinsically safe & solid Notebook Ex NB09S adopted advanced technology with intrinsically safe circuit, 14" screen, and 5.0 Megapixel (Front Camera). Its waterproof and dustproof performance can meet the IP65 standards.

In addition, the Notebook supports fingerprint identification, WIFI and Bluetooth, built-in GPS, compass and other functions suitable for outdoor construction and pipeline inspection. It can also cooperate with OA office system, checking positioning system and data acquisition system etc. Especially it is used in dangerous environment of the explosion, such as petroleum, chemical, pharmaceutical, oil depot, tank farm as well as the dangerous sites with combustible and explosive gas. It is convenient for users to dispatch communicate timely.

IP Grade: IP65

Ex-marking: Ex ic IIB T5 Gc **Certificate No.:** CCRI 20.2233X

OS: Windows 11 Home, Optional: Windows 11 Pro, Windows 11 IOT

CPU:

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

Screen: 14-inch 16:9 FHD, Resolution: 1920*1080

RAM: RAM 16GB DDR5, Optional: 32GB

ROM: 256GB SSD

Front Cameras: 5.0MP

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 Transmission distance: 10 m **GPS:** Supports single GPS or single glonass, default GPS

Dimension: 363.2*287.4*42.1mm

Weight: 4104g (bare machine), 4320g (machine with packaging)

Battery: Capacitive 2500mAh / 7.4V

Removable Polymer Lithium-ion Battery, Hot-swappable 7500mAh / 7.4V

Battery life: 9 hours (default: 50% volume, default: 200 lumens, 720P HD video)

Fingerprint: *1 SPI fingerprint

Battery Quad-charging dock (Optional)

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| | Product Certificates | |
| Ex-marking | Ex ic IIB T5 Gc | |
| Certification No. | CCRI 20.2233X | |
| IP Grade | IP65 | |
| Product Outlook | | |
| Dimensions | 363.2*287.4*42.1mm | |
| Weight | 4104g (bare machine), 4320g (machine with packaging) | |
| Hardware Configuration | | |
| CPU | 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 ROM: 256GB SSD | |
| SSD | Optional: 1*SSD (Expansion Slot) | |
| TPM | Built in TPM2.0 | |
| Hall | Hall | |
| | Operating System | |
| | Windows 11 Home | |
| | Optional: | |
| Operating System | Windows 11 Pro | |
| | Windows 11 IOT | |
| | Specification parameters | |
| | Type: FHD | |
| Dievelous | Size: 14-inch 16:9 | |
| Display | Resolution: 1920*1080 | |
| | Brightness: 1000cd/m² | |
| Touch Pannel | Optional 10-Point Capacitive Screen, G+G, Corning Gorilla Glass; Hardness above 7H; | |
| | Scratch-resistant; Supports glove touch | |
| Camera | Front 5.0MP | |
| | Power Button *1 | |
| | P Key *1 (one-click screen off/on) | |
| | RF *1 (toggle switch, enable/disable wireless functions) | |
| Speaker | Built in 4Ω/3W *2 | |
| Microphone | Internal MIC *1 | |
| Battery (Built in) | Built-in Polymer Lithium-ion Battery, Non-removable | |
| | 2500mAh/7.4V | |
| | 1.5hrs (Default 50% volume, 200 lumens brightness, playing 1080P HD video) | |
| | Removable Polymer Lithium-ion Battery, Hot-swappable | |
| Battery | 7500mAh/7.4V | |
| (Hot-swappable) | 7.5hrs (Playing 1080P HD video, Conditions: System in balance mode, 320 lumens, 70 dB at | |
| | 10cm, Wi-Fi and Bluetooth turned off.) | |
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| WIFI Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax Bluetooth BT5.1 (BLE) class 1 Transmission Distance: 10m | | |
|--|-----------|--|
| 2 - 2 - 27-7-1-10/11/11/11/2 | | |
| Bluetooth BT5.1 (BLE) class 1 Transmission Distance: 10m | | |
| | | |
| 4G(Optional M.2 European standard) | | |
| 2G/3G/4G LTE-FDD: B1/3/5/7/8/20/28 | | |
| LTE-TDD: B38/40/41 | | |
| 5G optional M.2 | | |
| 5G NR | | |
| 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/ | |
| 5G 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/ 6 | 6/71 | |
| LTE-TDD B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48 | | |
| LAA B46 | | |
| UMTS WCDMA B1/ 2/ 4/ 5/ 8/ 19 | | |
| GPS Supports single GPS or single glonass, default GPS | | |
| NFC Optional, NXP300 | | |
| Fingerprint Built in, ×1 SPI Fingerprint (Power-On Login) | | |
| Keyboard US Layout Keyboard with Backlight | | |
| Interfaces | | |
| USB3.2 *1, USB3.0 *1, USB2.0 *1 | | |
| TYPE-C, Supports Thunderbolt 4 | | |
| ∮ 3.5mm Standard Earphone Jack *1 | | |
| HDMI 2.0a mini x1 | | |
| SIM *1 | | |
| TF *1 | | |
| RJ45*1 10M/100M/1000M adaptive | | |
| I/O Interfaces RJ45*1 10M/100M/1000M adaptive, Supports Gigabit Protocol | | |
| RS232 *1, 9 fully functional lines | | |
| DC19V/3.78A ∮ 5.5mm Power port *1 | | |
| 12PIN Pogo Pin (USB & charging) *1 | | |
| Anti-theft Lock Slot *1 | | |
| Right-side Cooling Vent *1 | | |
| Left-side expansion slot, optional M.2-2280 PCIe interface *1, supports SSD; Option | nal: M.2, | |
| E-KEY, PCIE interface *1 for custom modules. | | |
| Indicator Light | | |
| Camera Indicator | | |
| Light ×1 Constant white light when active, light off when inactive. | | |
| Power Indicator ×1 Constant blue light when power on, light off when off. | | |

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| Light | | |
| Battery Indicator | ×1 (Dual-color red/green) Red when charging, green when fully charged, blinking red for | |
| Light | low battery, light off during discharge. | |
| Caps Lock Key | ×1 Red light on indicates caps lock on, off indicates caps lock off. | |
| Airplane Mode Indicator Light | ×1 Red light on indicates airplane mode on, off indicates airplane mode off. | |
| Adapter | | |
| Adapter | DC input 100-240VAC0.5A50/60Hz | |
| | DC19V/3.78A 71.82W American Standard | |
| | Optional: | |
| | European Standard | |
| | Rugged Features | |
| | Working temperature: -20 °C to 60 °C | |
| Rugged Features | Storage temperature: -30 °C to 70 °C | |
| | Anti drop height: 1.2m | |
| | Humidity: 95% Non-Condensing | |
| Accessories | | |
| Accessories | Adapter (Standard) | |
| | Removable Battery (Optional) | |
| | Battery Quad-charging dock(Optional) | |
| | | |

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Address:

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.:

CCRI 20.2233X

Company: Beijing Dorland System Control Tech Co.,Ltd.

Room 807, Yingu Plaza, North 4th Ring West Road, Haidian District,

Beijing 100080, P.R. China.

Name of Product: Industrial Intrinsically Safe & Solid Notebook

Type of Product: Ex NB09S

Marking: Ex ic II B T5 Gc

Technical Documents: Q/DLM 005-2020

Drawing No.: Ex NB09S BZ01

Note(s):

1. Power supply by two separated rechargeable lithium-ion batteries with protective circuits. Rated voltage:7.4VDC/7000mAh, 7.4VDC/2500mAh;

2. The suffix "X" of the certificate means that it is forbidden to use external power supply and all kinds of external interfaces when using in hazardous places. It should be use at steady placement when working.

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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

Date of Issue: 6.18.2020

Valid till: 6.17.2025

Authorize:

高

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