Beijing Dorland
System Control
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DORLAND Industrial Intrinsically Safe Notebook Ex NB07S

Developed by Beijing Dorland System Control Technology Co., LTD., the industrial intrinsically safe & solid Notebook Ex NB07S adopted advanced technology with intrinsically safe circuit, 13.3” screen （touch screen is optional） and 2.0 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, military industry, oil depot, tank farm as well as the dangerous sites with combustible and explosive gas. It is convenient for users to dispatch communicate timely.



Protection Grade： IP65
Explosive-proof Grade： Ex ic IIB T5 Gc
Certification No.: SYEx22.10174X

OS： Windows 10 / 11

CPU： 11th Generation KBL-R Intel® Core™ i5 1135G7 or i7-1165G7
Screen： 13.3 inch FHD, 1920(H)×1080(V)
Language： Default English
RAM： 8G DDR3L Optional 16GB
SSD： 256GB NGFF SSD Optional 512GB
Cameras： 2.0MP front
WIFI： 2×2 Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
Bluetooth： BT5.1
GPS： Optional GPS
Dimension： 322*233*26 mm (Bare)
Weigh： 2.1kg
Battery： 2* 2800mAh/11.1V External Lithium-ion ploymer battery
Battery life: 10 hours (default: 50% volume, default: 200 lumens, 720P HD video)
Fingerprint： ×1 SPI fingerprint

Frequency：

4G: Built-in, Mini-pcie interface(USB and pcie signal compatibility)

Optional: LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8

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USB3.0：USB3.0 Type-A*3

USB2.0：USB Type-C*1

Earphone Jack：∮3.5mm Standard earphone jack*1

HDMI：HDMI *1

TF Card：TF Card *1

SIM Card：SIM Card *1

DC：DC 19V 3.42A power jack *1

Serial port：DB9 RS232 *1

RJ45 port：*1

POGO PIN：POGO 5PIN*1（optional）



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Product Certificate			
Type	**Details**	**Decription**	**Optional**
Certificate System	**Ex-mark**	Ex ic IIB T5 Gc	NA
	Certification No.	SYEx22.10174X	NA
	IP65	IP65	NA
Product Outlook			
Type	**Details**	**Standard Configuration**	**Optional**
Product Form	**Type**	13.3 inch Full-rugged Netbook	NA
	Dimension	332*233*26 mm (Host)	NA
	Weight	2.1KG	NA
	Device Color	Black	NA
LCD	**Screen size**	13.3“ 16:9	NA
	Resolution	1920(H)×1080(V) FHD	NA
	Brightness	400cd/㎡	700cd/㎡
TP	**Touch panel**	NA	10 point touch capacitive，G+G，Rigidity: 7H up, Anti-scratch，Support glove touch
Camera	**Front**	Front 2.0MP，Anti camera LED	NA
Speaker	**Built-in**	Built-in 8Ω/1W x2	NA
Mic	**Built-in**	×2 Internal Digit MIC	NA
Battery（Pluggable）	**Type**	×2 External polymer lithium ion battery	NA
	Capacitive	5600mAh/11.1V (2800mAh/11.1V x2)	NA
	Endurance	10hrs(Default 50% volume，default 200 nit，Play 720P HD video)	NA
System Hardware Configuration			
Type	**Details**	**Decription**	**Optional**
CPU	**Type**	i5-1135G7 (11th Generation Intel Tiger Lake UP3-28W processor with 4 cores and 8 threads, using 10nm technology.)	i7-1165G7 (11th Generation Intel Tiger Lake UP3-28W processor with 4 cores and 8 threads, using 10nm technology.)

	Speed	processor base frequency 2.40 GHz, maximum frequency 4.20 GHz	processor base frequency 2.80 GHz, maximum frequency 4.70 GHz
GPU	**Type**	Gen 12 Intel® Iris® Xe Graphics	Gen 12 Intel® Iris® Xe Graphics
RAM	**DDR4L**	8GB	16GB
SSD	**NGFF SSD**	256GB	512GB
TPM	**Built-in**	Built-in TPM2.0 SLB9665T	NA
Hall switch	**hall**	hall	NA
Keyboard	**keyboard**	78 key, with LED backlight	NA
Network Connections			
Type	**Details**	**Decription**	**Optional**
WIFI	**WIFI Modle**	Intel AX200: support wi-fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac, ax	NA
Bluetooth	**Built-in**	Bluetooth V5.1	NA
4G	**Built-in**	NA	M. 2 interface (EM)_ YY4GM2_ PCB_ V11R1 PCBA(EC25-EC)) LTE FDD: B1/B3/B7/B8/B20/B28 A WCDMA: B1/B8 GSM: B3/B8 China (Unicom Telecom, mobile support is not good, only B8 support, no TDD band) Europe, Middle East, Africa, Taiwan, Japan
GPS	**Built-in**	Only batch restructuring is supported	U-blox neo-7 support satellite: GPS; acquisition sensitivity: - 160 DBM; cold start time: < 50 seconds, hot start time: < 28 seconds, frequency: 0.25 Hz 10 MHz (configurable)

Data Collection			
Type	**Details**	**Decription**	**Optional**
Fingreprint	**Built-in**	×1 SPI fingreprint(Power on login)	NA
Interface			
Type	**Details**	**Decription**	**Optional**
USB3.0	**USB3.0**	USB3.0*3	NA
Type C	**Type C**	x1 Thunderbolt 4	NA
Earphone Jack	**Earphone Jack**	∮ 3.5mm Standard earphone jack x1 host	NA
HDMI	**HDMI**	HDMI x1 （type-A）	NA
SD Card	**SD Card**	SD Card x1	Inside the battery compartment
SIM Card	**SIM Card**	SIM Card x1	
DC	**DC Jack**	DC 19V 3.42A power jack x1	NA
Serial port	**Serial port**	DB9 (RS232) ×1	NA
RJ45 port	**Internet port**	x1 （10/100/1000M Self-adaption）	NA
Burglar lock hole(Right)	**Kensington**	Kensington x1	NA
Heat dissipation air outlet(Right)	**Heat dissipation air outlet(Right)**	Heat dissipation air outlet(Right) x1	NA
Left extension dock	**Left extension dock**	NA	×1 External GPS antenna
POGO PIN	**POGO PIN**	NA	Pogo 5pin (USB interface definition)
Button			
Type	**Details**	**Decription**	**Optional**
power	**Power Button**	x1	NA
P1	**P1**	Used to lock or open screen ×1	NA
Indicator light			
Type	**Details**	**Decription**	**Optional**
power	**Built-in**	×1 Light color is blue when boot(Blue will not too bright),	NA

		Light off when machine closed.	
baterry 1	**Built-in**	×1(red and green double - color) Light color is red when charging, then become green when full charge , red light flash when low - power, it is not bright when discharge.	NA
baterry 2	**Built-in**	×1(red and green double - color) Light color is red when charging, then become green when full charge , red light flash when low - power, it is not bright when discharge.	NA
Caps lock	**Built-in**	×1	NA
Standard Accessories			
Type	**Details**	**Decription**	**Optional**
Power Adaptor	**Standard**	100~240V Input 19V3.42A/65W output USA standard CE approval	USA standard
			EU standard
Software Configuration			
Type	**Details**	**Decription**	**Optional**
OS	**OS version**	Windows 10 home 64bit OS	Windows 10 IOT 64bit
			Windows 10 Pro 64bit
			Windows 11
Reliability			
Type	**Details**	**Decription**	**Optional**
Product Reliability	**Drop Height**	MIL-STD-810G 1.22m drop	
	Operate Temperature	‘-20 °C to 60 °C	
	Store Temperature	’-30 °C to 70 °C	
	Humidity	Humidity: 95% Non-Condensing	

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CMA 210008349143

Explosion-proof electrical apparatus

CNAS 中国认可 检测 TESTING CNAS L1016

Conformity certificate of Explosion-proof

Certificate No. SYEx22.10174X

Manufacturer	Beijing Dorland System Control Technology Co., Ltd
Address	11-A1, 10th Floor, Building 2, Yard 1, Wangzhuang Road, Haidian District, Beijing
Factory	Beijing Dorland System Control Technology Co., Ltd
Address	11-A1, 10th Floor, Building 2, Yard 1, Wangzhuang Road, Haidian District, Beijing
Name of product	Intrinsically safe smart industrial grade explosion-proof laptop
Type specification	ExNB07S
Ex-marking	Ex ic IIB T5 Gc
Product standards	Q/DLM 003-2022
Drawing No.	ExNB07S BZ01
Note	1. The product is powered by one GLT-2766112 battery (DC11.1V, 2800mAh), with a maximum open circuit voltage of DC12.6V and a maximum short circuit current of 3.3A. The battery is integrally sealed with the protective plate. 2. It is strictly prohibited to use external plug-in devices such as USB interfaces in hazardous locations. 3. Nominal voltage DC11.1V.

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 Explosive atmospheres Part1: Equipment-General requirements
GB/T 3836.4-2021 Explosive atmospheres Part4: Equipment protection by intrinsic safety "i"

Approved by

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Machinery industry Product Quality Supervisory and Test Center of Low-voltage Explosion-proof Electrical Product

EDRI

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Note: This certificate is valid only for products which are in agreement with the review and approval documents and samples.