Beijing Dorland System Control Technology Co., Ltd.
Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China
Tel: +86-10-62198496
Fax: +86 010 62985217
www.dorland-tech.com
tian@dorland.com.cn

DORLAND Industrial Intrinsically Safe Notebook Ex NB10S

Developed by Beijing Dorland System Control Technology Co., LTD., the industrial intrinsically safe & solid Notebook Ex NB10S adopted advanced technology with intrinsically safe circuit, 15.6" screen 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, altimeter, 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.

Protection Grade：IP65
Explosive-proof Grade：EX ic IIB T5 Gc
Certificate No.: SYEx23.1055X

OS：Windows 10/11
CPU：11th Generation Intel® Core™ i5/ i7(Optional)
CPU Speed：Processor 4core 8 threads, processor base frequency 1.60 GHz
Maximum frequency 3.40 GHz / 4.0 GHz(Optional)
GPU Type：Intel® UHD Graphics 620
Screen：15.6 inch 1920(H)×1080(V) 1000cd/㎡ FHD
Language：Default English
RAM：16GB DDR3L Optional 32GB
SSD：256GB NGFF SSD Optional 512GB/1TB

Cameras：2.0MP front
WIFI：WIFI 802.11(a/b/g/n/ac) Frequency 2.4G+5.8G Dual frequency WIFI /Intel 3165 / Max Speed 433 Mbps
Bluetooth：BT4.2 (BLE) class1 Transmission distance: 10 m
GPS：U-blox NEO-7,Support:GLONASS,QZSS,GPS(USB interface）Optional Beidou
Dimension：397*271*37 mm (Bare machine)
Weigh：3.3kg (Bare machine)
Battery：Lithium-ion polymer battery 2500mAh/7.4V (Built-in)
External Lithium-ion polymer battery 7500mAh/7.4V
Battery life: 8.5 hours (Default 50% volume, default 200 lumens, 720P HD video)

Frequency：
3G: Mini-pcie interface(USB and pcie signal compatibility)
Optional: MU709s-2 Mini PCIe(UMTS/HSPA+ 900/2100MHz)，MU709s-6 Mini PCIe(UMTS/HSPA+ 850/1900/2100 MHz)

Beijing Dorland
System Control
Technology Co., Ltd.

Room1107, Tower B, Tsinghua
Tongfang Technology Square,
No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496
Fax: +86 010 62985217

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com

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

Optional: EC25-AU Mini PCIe LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40

WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8







Beijing Dorland System Control Technology Co., Ltd.
Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China
Tel: +86-10-62198496
Fax: +86 010 62985217
www.dorland-tech.com
tian@dorland.com.cn

Product Outlook			
Type	**Details**	**Standard Configuration**	**Optional**
Product Form	**Type**	15 inch Full-rugged Notebook	NA
	Dimension	397*271*37 mm	NA
	Weight	Bare metal 3.3kg	NA
	Device Color	Black	NA
LCD	**Screen size**	15.6“ 16:9	NA
	Resolution	1920(H)×1080(V) FHD	NA
	Brightness	1000cd/㎡	NA
TP	**Touch panel**	NA	NA
Camera	**Front**	Front 2.0MP	NA
Speaker	**Built-in**	Built-in 8Ω/1W x2	NA
Mic	**Built-in**	×2 Internal Digit MIC	NA
Battery (Built-in)	**Type**	Built-in Lithium-ion ploymer battery	NA
	Capacitive	2500mAh/7.4V	NA
	Endurance	0.5hrs(Default 50% volume，default 200 nit，Play 720P HD video)	NA
Battery (Pluggable)	**Type**	External Lithium-ion ploymer battery	NA
	Capacitive	7500mAh/7.4V	NA
	Endurance	8 hrs(Default 50% volume，default 200 nit，Play 720P HD video)	NA
System Hardware Configuration			
Type	**Details**	**Decription**	**Optional**
CPU	**Type**	11th Generation Intel Tiger Lake UP3 -28W i5-1135G7	i7-1165G7 (base frequency 2.80 GHz, maximum frequency 4.7 GHz)
	Speed	Processor 4core 8 threads, processor base frequency 2.40 GHz, maximum frequency 4.20 GHz	
GPU	**Type**	Gen 12 Intel® Iris® Xe Graphics, up to 96EU (GPU1.3G)	NA
RAM	**DDR4L**	16GB	32GB
SSD	**NGFF SSD**	256GB	512GB/1TB
HDD	**Type**	NA	support HDD
TPM	**Built-in**	Built-in TPM2.0 SLB9670VQ2.0	NA

Hall switch	**hall**	hall	NA
Network Connections			
Type	**Details**	**Decription**	**Optional**
WIFI	**WIFI Modle**	WIFI 802.11(a/b/g/n/ac) Frequency 2.4G+5.8G Dual frequency WIFI /intel 3165 / Max Speed 433 Mbps	NA
Bluetooth	**Built-in**	BT4.2 (BLE) class1 Transmission distance：10m	NA
3G	**Built-in**	Mini-pcie interface(USB and pcie signal compatibility)	MU709s-2 Mini PCIe(UMTS/HSPA+ 900/2100MHz)，MU709s-6 Mini PCIe (UMTS/HSPA+ 850/1900/2100 MHz)
4G	**Built-in**	Mini-pcie interface(USB and pcie signal compatibility)	EC25-AU Mini PCIe LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8
NFC	**NA**	NA	NXP NFC 13.56MHz support ISO/IEC 下 14443A/14443B/15693/18092/mifare，Card reading distance：4cm
GPS	**Built-in**	U-blox NEO-7 Support :GPS; Capture sensitivity: -160 dBm；Cool Start Time：<50second，Hot start time：<28seconds，frequency：0.25 Hz … 10 MHz (configurable)	Optional Beidou+GPS U-blox NE0-M8N-0
Data Collection			
Type	**Details**	**Decription**	**Optional**
Fingreprint	**Built-in**	×1 SPI fingreprint	NA
Interface			
Type	**Details**	**Decription**	**Optional**
USB3.0	**USB3.0**	USB3.0*3	NA
USB2.0	**USB2.0**	USB2.0*1	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	NA
SIM Card	**SIM Card**	SIM Card x1	NA
DC	**DC Jack**	DC 19V 3.42A power jack x1	NA
Serial port	**Serial port**	DB9 (RS232 or RS485) ×1	NA

RJ45 port	**Internet port**	x2（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 Passenger transfer card PCIE 4X solt or HDD
POGO PIN	**POGO PIN**	POGO 5pin	
Button			
Type	**Details**	**Decription**	**Optional**
power	**Power Button**	x1	NA
Reset	**Reset Button**	Reset x 1	NA
P1	**P1**	Used to lock or open screen×1	NA
keyboard	**keyboard**	US 104 button,IP65	NA
Indicator light			
Type	**Details**	**Decription**	**Optional**
power	**Built-in**	×1 Light color is blue when boot(Blue will not too bright), Light off when machine closed.	NA
baterry	**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
HDD LED	**Built-in**	×1	NA
Caps lock	**Built-in**	×1	NA
3G/4G	**Built-in**	Light color is blue when 3G/4G opened ; Light off when 3G/4G closed	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**

Beijing Dorland System Control Technology Co., Ltd.
Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China
Tel: +86-10-62198496
Fax: +86 010 62985217
www.dorland-tech.com
tian@dorland.com.cn

OS	**OS version**	Windows 10 IOT	Windows 11 Pro
			Windows 11 home
Product Certificate			
Type	**Details**	**Decription**	**Optional**
Marking		Ex ic IIB T5 Gc	NA
Certificate No.		SYEx23.1055X	
IP Grade		IP65	NA
Reliability			
Type	**Details**	**Decription**	**Optional**
Product Reliability	**Drop Height**	MIL-STD-810G 1.22m drop	NA
	Operate Temperature	’-20 °C to 60 °C	NA
	Store Temperature	’-30 °C to 70 °C	NA
	Humidity	Humidity: 95% Non-Condensing	NA

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. SYEx23.1055X

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	本安型智能工业级防爆笔记本
型号规格 Type specification	ExNB10S
防爆标志 Ex-marking	Ex ic IIB T5 Gc
产品标准 Product standards	Q/DLM 012-2023
图样编号 Drawing No.	ExNB10S ZZ01
备注 Note	1. 产品由 2 节 4672135 锂电池(DC3.7V,7500mAh)供电，电池最高开路电压 DC8.4V，电池最大短路电流 2.9A，电池与保护板浇封一体。 2. 严禁于危险场所充电、使用接口及外部插接设备。 3. 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 2023-11-23

证书有效期至 Valid date 2028-11-22

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

SEDRI

地址 Address：沈阳市于洪区巢湖街 10 号
电话 Tel：024-25833213、25833649-8033，85831461
证书查询网址 Query URL：www.fbdqhy.com
邮编 Postcode：110141
传真 Fax：024-25316883
E-mail：sy_ex@sina.com

注：本证书仅对与审查认可文件及检验样品一致的产品有效。Note：This certificate is valid only for products which are in agreement with the review and approval documents and samples.