

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

OS: Windows 10 Home /IOT/Pro/enterprise 64bit

CPU: 8th Generation KBL-R Intel® Core™ i5-8250U / i7-8550U(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) 700cd/m² FHD

Language: Default English

RAM: 8GB DDR3L Optional 16GB

SSD: 256GB NGFF SSD Optional 512GB

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)

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

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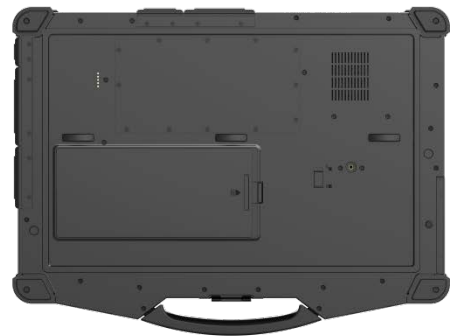
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Optional: EC25-AU Mini PCIe LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40

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



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

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)x1080(V) FHD	NA
	Brightness	700cd/m ²	NA
TP	Touch panel	NA	NA
Camera	Front	Front 2.0MP	NA
Speaker	Built-in	Built-in 8Ω/1W x2	NA
Mic	Built-in	x2 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	8th Generation KBL-R Intel® Core™ i5-8250U	8th Generation KBL-R Intel® Core™ i7-8550U
	Speed	Processor 4core 8 threads, processor base frequency 1.60 GHz, maximum frequency 3.40 GHz	maximum frequency 4.0 GHz
GPU	Type	Intel® UHD Graphics 620	Intel® UHD Graphics 620
RAM	DDR4L	8GB	16GB
SSD	NGFF SSD	128GB	256GB/512GB
HDD	Type	NA	support HDD
TPM	Built-in	Built-in TPM Security Chip SLB9665T2.0	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 NEO-M8N-0
Data Collection			
Type	Details	Decription	Optional
Fingerprint	Built-in	x1 SPI fingerprint	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	φ 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) x1	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	x1 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 screenx1	NA
keyboard	keyboard	US 104 button,IP65	NA
Indicator light			
Type	Details	Decription	Optional
power	Built-in	x1 Light color is blue when boot(Blue will not too bright), Light off when machine closed.	NA
baterry	Built-in	x1(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	x1	NA
Caps lock	Built-in	x1	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	USA standard
		output USA standard CE approval	EU standard
Software Configuration			
Type	Details	Decription	Optional
OS	OS version	Windows 10 home 64bit OS	windows 10 IOT 64bit
			Windows 10 Pro 64bit

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			windows 10 enterprise 64bit
Product Certificate			
Type	Details	Decription	Optional
Marking		Ex ic IIB T5 Gc	NA
IP Grade	IP65	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