Beijing Dorland System Control Technology Co., Ltd.

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DORLAND Industrial Intrinsically Safe Smartphone Unicorn10

Beijing DORLAND System Control Technology Co., Ltd. recently introduced the intrinsically safe smartphone Unicorn10. It adopts advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.53 inch full screen (19.5:9) design, equipped with 16m front and 48m + 8m + 2m pixel high-definition camera at the rear. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, the phone supports OTG / NFC, software intercom, fingerprint unlocking and other functions. The phone is equipped with GPS positioning, compass and other functions suitable for outdoor construction and pipeline inspection. It can cooperate with OA office system, patrol positioning system, data acquisition system and other applications. Especially suitable for hazardous explosion environment, such as petroleum, chemical, pharmaceutical, oil depot, tank farm and other dangerous places with combustible and explosive gas, which is convenient for users to communicate with production and scheduling in time.

Protection Grade: IP68

Marking: Ex ib IIC T4 Gb / Ex ibD 21 T130°C

Certificate No.: CCRI 20.2303

OS: Android 10.0

Screen: 6.53" FHD+(19.5:9) 2340*1080

Memory: 6GB RAM+128GB ROM

Storage Card: up to 256GB

CPU: MT6779 (Helio P90) 8-core 2.2GHz

Cameras: Rear camera 48M+8M+2M

Front camera 16M

Battery: 8000mAh

Battery voltage: 3.8V

Ambient temperature: - 20 ℃ - + 60 ℃

Frequency: Global communications including CDMA

GSM:2/3/5/8   WCDMA:1/2/4/5/8/6   TDS:34/39   TDD:34/38/39/40/41

FDD:1/2/3/4/5/7/8/12/17/19/20/28A/28B/18/25/26/66/13   CDMA:BC0/BC1/BC10

VoLTE / ViLTE: Specific needs to be supported by local operators and platforms

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Main parameters and functions			Specific description
Marking			Ex ib IIC T4 Gb / Ex ibD 21 T130℃
Certificate No.			CCRI 20.2303
Protection Grade			IP68
Physical dimension		Overall size	174*81*17mm
		Weight (including battery)	356g
Market positioning	Product Positioning	Product role positioning	High-end price-performance ratio, large screen, long battery life
		Industrial explosion-proof intelligent terminal series	Unicorn series
		Targeted market	Dangerous places such as petrochemical industry, pharmaceutical production, biological products, offshore oil, powder industry, coal chemical industry, energy, etc.
		Target population	Safety and environmental protection, work safety supervision bureau, enterprise information construction, safety production, energy saving and emission reduction, refining and chemical, inspection, mobile office, etc.
	Core interests	Sharp Feature	19.5:9 Full screen in the true sense, perforated screen design, large field of view, shocking audio-visual entertainment experience
		Key Features	Big battery life
			Front soft light selfie
			Three rear cameras, blur background
Hardware	Hardware platform	Platform chip	MT6779 Helio P90 8-core 2.2G
			64 bit
	Memory	RAM	6/8GB
		ROM	128GB
		T card expansion	Maximum support 256GB expansion
	Single and dual cards	SIM card	Nano+Nano/TF
		Single/dual pass	Dual SIM Dual Standby Single Pass
	Fingerprint	Fingerprint location	Back fingerprint (support face recognition to unlock)
		Fingerprint speed	Unlock 0.35s when the screen is off, and unlock 0.2s when the screen is on
	Frequency band and others	Global Communication	Global communication including CDMA GSM:2/3/5/8 WCDMA:1/2/4/5/6/8 TDS:34/39 TDD:34/38/39/40/41(HPUE-Power Class 2,120M:2535-2655MHz) FDD:1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66 CDMA:BC0/BC1/BC10
		VoLTE	Specific needs based on the joint support of local operators and platforms
		ViLTE	Specific needs based on the joint support of local operators and platforms
	Connectivity	WIFI(2.4G/5G)	2.4GHz+5GHz:802.11 a/b/g/n /ac
		FM Radio	Support
		Bluetooth	BT5.0

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		USB	TYPE-C
		OTG	Support, support mouse, keyboard, U disk, reverse charging (1.0A)
		NFC	Support
		Headphone jack	TYPE-C transfer
		HOTKNOT	No
	Sensor	Accelerometer	Support
		Gyro	Support
		Ambient light and distance sensor	Support
		GPS	Support GPS, Beidou, Galileo, Glonass
		Electronic compass	Support
	Other	Infrared remote control	No
		Surge standard	1. VBUS standard: uniform regardless of region: +300V; -200V 2. VBAT: India and Southeast Asia project requirements: +300V; -200V; other areas require +200V; -200V
		Hall switch (holster)	No
Structure		Structure type	PDA
	Screen	size	6.53 FHD+(19.5:9)
		Types of	LTPS
		Resolution	FHD+ (2340*1080)
		TP cover	Corning 2320
		TP IC	incell process
	Camera	Front	16M FF
		Rear	48M AF+8M AF+2M AF
		flash	Rear flash
	Key	Function keys	Virtual Key
		Side key	Volume key + Power key + custom key + flashlight
	Battery	type of battery	Lithium polymer battery
		capacity	8000mAh
		Call duration	50h
		Card standby time	600h
		Standby time without card	1000h
		Use time	72h
		Capacity density ratio	623
		Charging scheme	9V2A
	Audio	Sound effect	Smart power amplifier
		Loudspeaker	Back sound
		MIC	2
Software	Operating system	Android version	Android 9.0
			64 bit
	Software	Multi-Media	Multimedia support formats, such as MP4, AVI, etc.

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	experience	Black screen gesture	support
		Hot swap of T card	support
		Sim hot swap	support
Package	Packing box	Box form	Heaven and earth cover
		Plastic package	No
	Host packaging	Packaging form	No
		Protective membrane cover	Yes
	Accessories	headset	No
		data line	×1
		Charger	9V2A×1
		Cover for rear cover	No
		Film	Color film
		Steel film	No
		T-card	Optional
		OTG line	Standard
		Holster	Optional
		Micro ferrule	Optional

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CCRITC

CONFORMITY CERTIFICATE
OF EXPLOSION-PROOF

Certificate No.:　　CCRI 20.2303

Company:　　Beijing Dorland System Control Tech Co.,Ltd

Address:　　Room 807,Yingu Plaza, North 4th Ring West Road,Haidian District, Beijing 100080,P.R.China

Name of Product:　**Industrial Intrinsically Safe Smartphone**

Type of Product:　**Unicorn10**

Marking:　　**Ex ib ⅡC T4 Gb / Ex ibD 21 T130℃**

Technical Documents:　**Q/DLM 006-2020**

Drawing No.:　**Unicorn10-00**

Note(s):　　1.Power supply by dual protection rechargeable lithiumion
　　　　　　　battery with rated voltage 3.8VDC,
　　　　　　　nominal napacity:8000mAh;
　　　　　2.Ambient temperature range:-20℃≤Ta≤+60℃;
　　　　　3. IP code:IP68 @1.5m,30min.

**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，GB/T 4208-2017
　　　　　GB 12476.1-2013，GB 12476.4-2010

Date of Issue:　　8.3.2020

Valid till:　　8.2.2025

Authorize:

Test Center Of China Coal Research Institute (煤炭科学技术研究院有限公司检测中心)

（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