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.cn
tian@dorland.com.cn

Dorland Industrial Intrinsically Safe Handheld Terminal

iDEN5G_T2S

Developed by Beijing Dorland System Control Technology Co., LTD., the industrial intrinsically safe EX handheld terminal iDEN5G_T2S adopted advanced technology with intrinsically safe circuit. It can be flexible matching 1D / 2D bar code scanning and other functions, the full realization of the handheld terminal highly integrated and freely optional features. In addition, bar code can be configured at the same time. Especially it's 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.

Explosive-proof grade: Ex ib IIC T4 Gb/Ex ib IIIC T130℃ Db

Certification No.: CCRI 22.7021X

IP grade: IP67

Software OS: android11.0

Touch Lens: 6.21 inch, resolution 1520 * 720 pixels

Frequency: Domestic&Eurasian:

2G: B2/B3/B5/B8

3G: WCDMA: B1/B5/B8,CDMA BC0,TD-SCDMA: B34/B39

4G: FDD-LTE: B1/B3/B5/B7/B8/B20,TDD-LTE: B34/B38/B39/B40/B41

5G: N1/N3/N38/N41/N77/N78/N79

American edition:

2G: B2/B3/B5

3G: B1/B2/B4/B5, CDMA BC0/BC1 (USA)

4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41

5G: N1/N3/N38/N41/N77/N78/N79

Memory (ROM+RAM): 64GB+4GB (standard configuration), 128GB+6GB (optional configuration)

CPU Platform: Dimensity 720 8-core 2.0GHz high-performance processor

Camera: 16 million rear camera+300 million sub camera, 5 million pixels front, auto focus

Battery capacity: Lithium battery 3.8V power supply, 4500mAh, removable

Dimension (H*W*D): 168mm*79mm*13.7mm

Weight: 245g (including battery)

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.cn
tian@dorland.com.cn

DORLAND
www.dorland-tech.cn



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.cn
tian@dorland.com.cn

Certificate parameter	Describe
Marking	**Ex ib IIC T4 Gb/Ex ib IIIC T130℃ Db**
Certificate NO.	**CCRI 22.7021X**
IP Grade	**IP67**
System Configuration	**Describe**
processor	Dimensity 720 8-core 2.0GHz high-performance processor
operating system	Android 11.0
Memory (ROM+RAM)	64GB+4GB (standard configuration), 128GB+6GB (optional configuration)
SIM	Two out of three SIM card slots support dual cards and dual standby
	*Two out of three card slots: two cards can be placed at the same time, nano SIM card+nano SIM card/nano SIM card+TF card
Expansion Slots	Micro SD card (up to 1TB)
display	6.21 inch, resolution 1520 * 720 pixels
Touch screen	Industrial capacitive screen, supporting wet hand operation/gesture operation/multi touch/glove mode
camera	16 million rear camera+300 million sub camera, 5 million pixels front, auto focus
flash lamp	800mA flash lamp
keyboard	There are 5 keys in total, side scan key * 2, side power key * 1, side volume ± key * 2
Battery	Lithium battery 3.8V power supply, 4500mAh, removable
audio frequency	Built in dual microphone (noise reduction microphone)
Charging mode	Type-C charging
Tips	High power horn/vibration prompt/LED prompt/audio prompt
NFC	support
fingerprint identification	Support back fingerprint identification
Vibrating motor	Built in vibration motor
sensor	G-sensor/proximity sensor/light sensor/geomagnetic sensor/gyroscope
Intercom function (optional)	Support one button PTT call
Structural Parameters	**Describe**
Dimension (H * W * D)	168mm*79mm*13.7mm
weight	245g (including battery)
NFC(optional)	**Describe**
frequency	13.56 MHz

Read distance	within 60 mm
Communication protocol	ISO14443A/14443B/15693
Environmental parameters	**Describe**
working temperature	-20 ℃~60 ℃ * For safety reasons, please do not charge at low temperature
Storage temperature	-40 ℃~70 ℃ (without battery)
humidity	0~95% (no condensation)
Drop specifications	1m concrete floor dropped for many times
Degree of protection	IP67
electrostatic discharge	± 15KV (air discharge), ± 8KV (contact discharge)
Scanning engine parameters	**Describe**
Barcode support	Support one-dimensional/two-dimensional barcode scanning
Scanning accuracy	≥3.33mil
Scanning angle	Pitch: ± 60 °; Skew: ± 45 °; Tilt: 360 °
Field of view angle	Horizontal: 44.3 °; Vertical: 28.4 °; Diagonal angle: 51 °
Motion tolerance	8m/s
Communication transmission parameters	**Describe**
Wireless wide area network (network frequency)	Domestic&Eurasian: 2G：B2/B3/B5/B8 3G：WCDMA：B1/B5/B8,CDMA BC0, TD-SCDMA：B34/B39 4G：FDD-LTE：B1/B3/B5/B7/B8/B20, TDD-LTE：B34/B38/B39/B40/B41 5G：N1/N3/N38/N41/N77/N78/N79 American edition: 2G：B2/B3/B5 3G: B1/B2/B4/B5, CDMA BC0/BC1 (USA) 4G：B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41 5G：N1/N3/N38/N41/N77/N78/N79
Wireless wide area network (data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA /TD-SCDMA/TDD-LTE/FDD-LTE/SA/NSA/Sub6
WLAN function	Wi Fi 802.11a/b/g/n/ac/d/e/h/i/j/k/r/v/w (2.4G+5G dual band Wi Fi), supporting fast roaming
Bluetooth	Bluetooth 5.1
GPS	GPS/AGPS/Beidou/Galileo/GLONASS/QZSS/GNSS
communication interface parameter	**Describe**
USB interface	Type-C (with headset function) * 1, USB 3.0
OTG interface	support

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.cn
tian@dorland.com.cn

Dorland Industrial Intrinsically Safe Handheld Terminal

iDEN5G_T2UHF

Developed by Beijing Dorland System Control Technology Co., LTD., the industrial intrinsically safe EX handheld terminal iDEN5G_T2UHF adopted advanced technology with intrinsically safe circuit. It can be flexible matching 1D / 2D bar code scanning, UHF, HF and other functions, the full realization of the handheld terminal highly integrated and freely optional features. In addition, especially it's 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.

Explosive-proof grade: Ex ib IIC T4 Gb/Ex ib IIIC T130℃ Db
Certification No.: CCRI 22.7021X
IP grade: IP67

Software OS: android11.0
Touch Lens: 6.21 inch, resolution 1520 * 720 pixels
Frequency: Domestic&Eurasian:

2G: B2/B3/B5/B8
3G: WCDMA: B1/B5/B8,CDMA BC0,TD-SCDMA: B34/B39
4G: FDD-LTE: B1/B3/B5/B7/B8/B20,TDD-LTE: B34/B38/B39/B40/B41
5G: N1/N3/N38/N41/N77/N78/N79
American edition:
2G: B2/B3/B5
3G: B1/B2/B4/B5, CDMA BC0/BC1 (USA)
4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
5G: N1/N3/N38/N41/N77/N78/N79

Memory (ROM+RAM): 64GB+4GB (standard configuration), 128GB+6GB (optional configuration)
CPU Platform: Dimensity 720 8-core 2.0GHz high-performance processor
Camera: 16 million rear camera+300 million sub camera, 5 million pixels front, auto focus
Battery capacity: Lithium battery 3.8V power supply, 4500mAh, removable
Handle: lithium battery 3.6V power supply, 6700mAh, removable
Dimension (H*W*D): 168mm*97mm*145mm
Weight: 680g (including battery)

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.cn
tian@dorland.com.cn

DORLAND
www.dorland-tech.cn











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

Certificate parameter	Describe
Marking	**Ex ib IIC T4 Gb/Ex ib IIIC T130℃ Db**
Certificate NO.	**CCRI 22.7021X**
IP Grade	**IP67**
System Configuration	**Describe**
processor	Dimensity 720 8-core 2.0GHz high-performance processor
operating system	Android 11.0
Memory (ROM+RAM)	64GB+4GB (standard configuration), 128GB+6GB (optional configuration)
SIM	Two out of three SIM card slots support dual cards and dual standby
	*Two out of three card slots: two cards can be placed at the same time, nano SIM card+nano SIM card/nano SIM card+TF card
Expansion Slots	Micro SD card (up to 1TB)
display	6.21 inch, resolution 1520 * 720 pixels
Touch screen	Industrial capacitive screen, supporting wet hand operation/gesture operation/multi touch/glove mode
camera	16 million rear camera+300 million sub camera, 5 million pixels front, auto focus
flash lamp	800mA flash lamp
keyboard	There are 6 keys in total, side scan key * 2, side power key * 1, side volume ± key * 2, handle button * 1
Battery	Lithium battery 3.8V power supply, 4500mAh, removable
	Handle: lithium battery 3.6V power supply, 6700mAh, removable
audio frequency	Built in dual microphone (noise reduction microphone)
Charging mode	Type-C charging
Tips	High power horn/vibration prompt/LED prompt/audio prompt
NFC	NA
Vibrating motor	Built in vibration motor
sensor	G-sensor/proximity sensor/light sensor/geomagnetic sensor/gyroscope
Intercom function (optional)	Support one button PTT call
Cooling fan (optional)	Built in cooling fan
Structural Parameters	**Describe**
Dimension (H * W * D)	168mm*97mm*145mm
weight	680g (including battery)
Environmental parameters	**Describe**

working temperature	-20 ℃~60 ℃ * For safety reasons, please do not charge at low temperature
Storage temperature	-40 ℃~70 ℃ (without battery)
humidity	0~95% (no condensation)
Drop specifications	1m concrete floor dropped for many times
Degree of protection	IP67
electrostatic discharge	± 15KV (air discharge), ± 8KV (contact discharge)
Scanning engine parameters	**Describe**
Barcode support	Support one-dimensional/two-dimensional barcode scanning
Scanning accuracy	≥3.33mil
Scanning angle	Pitch: ± 60 °; Skew: ± 45 °; Tilt: 360 °
Field of view angle	Horizontal: 44.3 °; Vertical: 28.4 °; Diagonal angle: 51 °
Motion tolerance	8m/s
UHF RFID parameters	**Describe**
Communication protocol	ISO18000-6C/EPC Class1 Gen2
working frequency	920MHz~925MHz/902MHz~928MHz/865MHz~868MHz
output power	8~33dbm
antenna	Circularly polarized antenna
Scan Distance	Up to 20m
Reading rate	Up to 700tags/s
Communication transmission parameters	**Describe**
Wireless wide area network (network frequency)	Domestic&Eurasian: 2G：B2/B3/B5/B8 3G：WCDMA：B1/B5/B8,CDMA BC0, TD-SCDMA：B34/B39 4G：FDD-LTE：B1/B3/B5/B7/B8/B20, TDD-LTE：B34/B38/B39/B40/B41 5G：N1/N3/N38/N41/N77/N78/N79 American edition: 2G：B2/B3/B5 3G: B1/B2/B4/B5, CDMA BC0/BC1 (USA) 4G：B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41 5G：N1/N3/N38/N41/N77/N78/N79
Wireless wide area network (data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA /TD-SCDMA/TDD-LTE/FDD-LTE/SA/NSA/Sub6
WLAN function	Wi Fi 802.11a/b/g/n/ac/d/e/h/i/j/k/r/v/w (2.4G+5G dual band Wi Fi), supporting fast roaming
Bluetooth	Bluetooth 5.1

GPS	GPS/AGPS/Beidou/Galileo/GLONASS/QZSS/GNSS
communication interface parameter	**Describe**
USB interface	Type-C (with headset function) * 1, USB 3.0
OTG interface	support
PSAM (optional)	supports PSAM * 1



CNAS 中国认可 检测 TESTING CNAS L0738

CCRITC

170021131268

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 22.2216

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

Address: Room 1107,Tower B,Tsinghua Tongfang Technology Square,No.1 Wangzhuang Road,Haidian District,Beijing,P.R.China

Name of Product: Industrial Intrinsically Safe Handheld Terminal

Type of Product: iDEN_02

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

Technical Documents: Q/DLM 011-2021

Drawing No.: iDEN_02 BZ01

Note(s):
1.The rated voltage is DC 3.8V, Powered by a dual-protected polymer lithium-ion battery,Battery cell model:975062 , Nominal capacity: 4800mAh;
2.Ambient temperature range:-10°C≤Ta≤+60°C;IP code:IP65;
3. Do not charge in hazardous locations;

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: 28.03.2022

Valid till: 27.03.2027

Authorize:

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