

HUGEROCK T101EX

Version: 2021

RUGGED ATEX TABLET PC
10.1 Inch ATEX Thin and Lightweight Rugged Mobile Platform

Ex-Marking: II 2G Ex ib IIB T4 Gb Certificate NO. ECM 21 ATEX-B QS09

The HUGEROCK T101EX rugged ATEX tablet PC is ideal for personnel working in explosive gas environments such as petroleum, petrochemical, mining, military, and public safety departments. Compliant with MIL-STD-810G and IP65 standards, it is durable enough to effectively protect equipment from dust, water, motion, vibration, temperature, and other factors that can quickly damage equipment. It can withstand a drop of up to 4ft and a shock pressure test of 2 tons. The T101EX can also easily integrate professional functions, including UHF RFID, barcode, Lora, ZigBee, RS232, high-precision GNSS, etc. It also features a long-life 14600mAh intrinsically safe battery, the screen is readable in sunlight, and operates in extremely low temperatures.



- 1000 NIT FHD
- Aluminum alloy 9MM
- 8GRAM+ 128ROM
- 14600mAh intrinsically safe battery
- ATEX Explosion Proof
- ARM Cortex A73 octa-core (2.0GHz)
- MIL-810G Drop-proof 5.5ft
- Google GMS
- MDM Mobile Device Management by Safeum

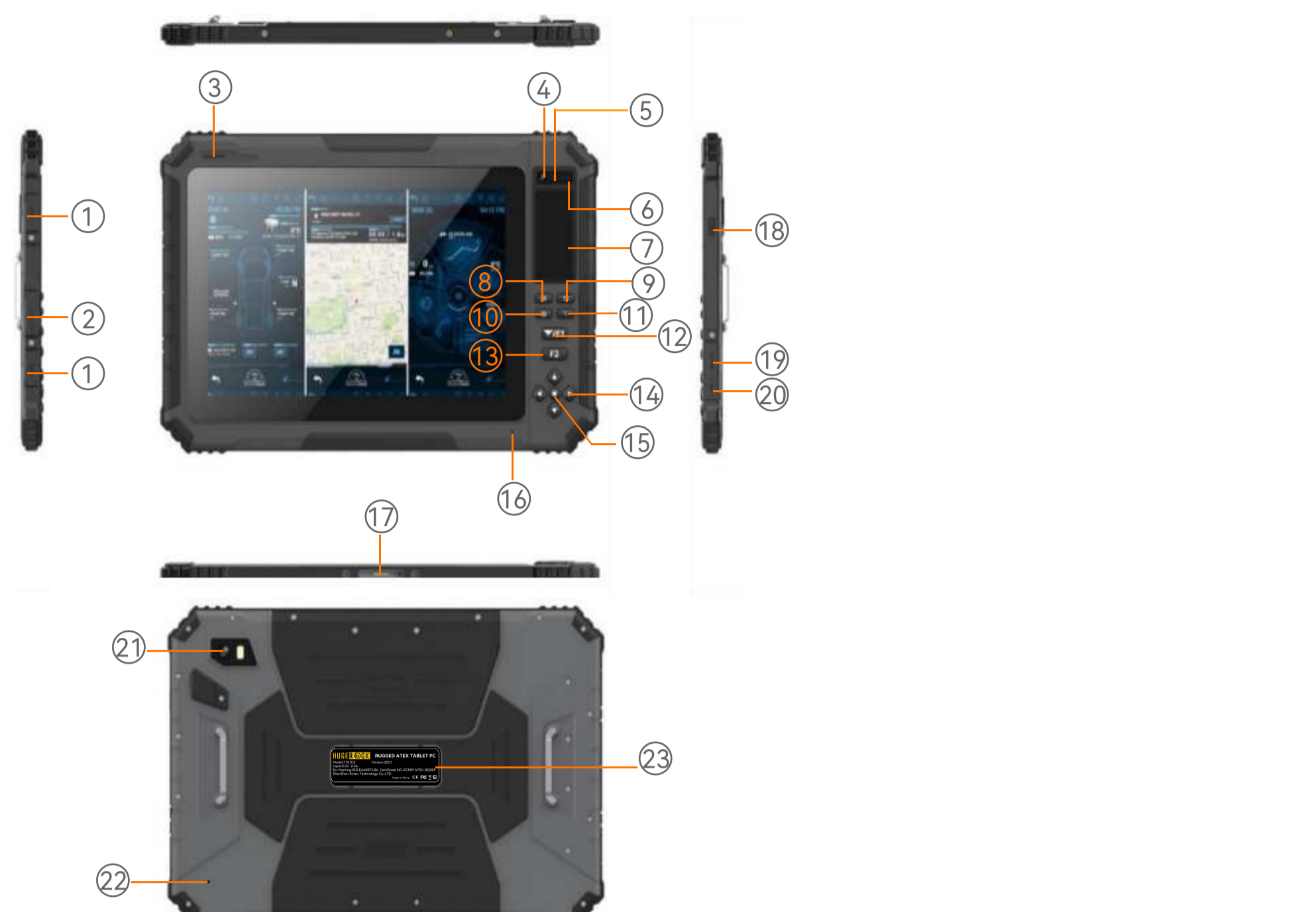


Shenzhen SOTEN Technology Co., LTD
ADD: 10F, B#2, Pivon Research Building, No. 5158 Shahe West Road, Nanshan, Shenzhen, China 518055
Phone: +86(0755)-61885156 61827963 Fax: +86(0755)-61827963
Web: www.soten.com.cn FAE: fae@soten.com.cn Skype: sales.soten

APPEARANCE



Order No : 101T21R



- Type-A (Sealed Cover)
- RS232 (Sealed Cover)
- Speaker
- Sub camera
- Ambient light sensor
- Charge lamp
- Fingerprint (optional)
- Menu button
- Back button
- Home button
- Search button
- Scan button
- Defined button
- Direction button
- Confirm button
- MIC
- 8pin Pogo pin
- Power button
- TF/SIM (Sealed Cover)
- Type C (Sealed Cover)
- Main camera
- Temperature pressure sensor(Optional)
- Nameplate



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SPECIFICATION

Model: T101EX(2021)

Hardware	Communications & Networking
CPU ARM Cortex A73 octa-core (2.0GHz)	Phone Call GSM /WCDMA/CDMA 1X/VoLTE
GPU ARM Mali-G72 MP3	2G GSM/CDMA 1X/EDGE/GPRS/WAP
RAM 8G	2G Band GSM (B2/3/5/8)
Internal Memory 128G	3G WCDMA 3.75G (HSDPA+42.2Mbps, HSUPA+11.5Mbps), EVDO
External Memory Micro SD card (T-FLASH card), max 256GB	3G Band WCDMA(B1/2/5/8), Evdo: BC0/BC1 CDMA: BC0/BC1
Main Camera 13.0MP(AF) with flash led	4G FDD: 150Mbps down, 50Mbps UPP TDD: 150Mbps downlink, 50Mbps uplink
Sub Camera 5.0MP	4G Band TD-LTE(B38/39/40/41); FDD LTE(B1/2/3/4/5/7/8/12/17/20/28)
Battery 14600mAh	Wi-Fi Dual-band WIFI (2.4GHz/5GHz) single stream 802.11 a/b/g/n/ac
Display 10.1 inch IPS/AFFS 1920*1200 FHD industrial 1000nit Sunlight Readable	Bluetooth 4.2 Low Energy (LE)
Touch Panel Capacitive/frosted tempered film supports glove touch/spray/active capacitive pen	Industrial & Reliability Design
IO/Sensor/Navigation	Shake-proof 1-19Hz/1.0mm; 19-200Hz/1.0g
SIM Card Nano sim card*2	Dropproof /IK MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
TF Card Micro SD card (T-FLASH card); max 256GB	Waterproof Class 5 (IEC 60529)
Charging interface Type-C & 8pin pogo pin	Dustproof Class 6 (IEC 60529)
Data interface USB Type-A(Host)*2, Type-C(OTG)*1	Operating temperature -20°C to 55°C
RS232 (Optional) RS232 serial port, using 5pin micro one GPIO port	Storage Temperature -40°C to 80°C
Gravity sensor support	Reliability MTBF>5000h; MTTR<0.5h
Motion sensor support	RH 5% to 95%
Direction Sensor support	Operating Altitude Max 4,500m (15,000 feet)
Magnetic Field Sensor support	Certification/OS/Software
Gyro sensor support	Certification ATEX/3C/FCC/CE/ROHS/IP65 (IEC 60529)
Rotation Vector support	Language English, Spanish, Portuguese (Brazil), Portuguese (Portugal), Italian, German, Dutch, French, Polish, Romanian, Turkish, Russian, Arabic, Indonesian, Malay, Thai, Vietnamese, Hindi, Hebrew, Simplified, Chinese, Chinese Traditional, etc
Light-sensor support	OS Android 10.0 / 11.0
Acceleration sensor support	Ex-Marking II 2G Ex ib IIB T4 Gb
Charger 5.0V/2A-10W	Certificate NO. ECM 21 ATEX-B QS09
Navigation GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	Package/Warranty terms/OEM
Appearance	Warranty 24 months
Size 320*228*12mm (L*W*H)	OEM/ODM Support
Weight 1346g	Package USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box (Can be customized logo)/Aircraft box/Toolkit(Optional)/SIM Card Ejector x 1
Color & Material Gray(Titanium alloy+ABS+PC+TPU)	



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OPTIONAL MODULES & ACCESSORIES

Barcode Reader
Optional 1D/2D

2D Barcode Module N1

N12D PDF417, QR Code, Micro QR, Data Matrix
1D Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UCC/EAN-128, GST Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey 640*480 CMOS
EAN13 (13mil) 65-350mm, PDF417 (6.7mil) 50-125mm, Code39 (5mil) 40-150mm, Data Matrix (10mil) 45-120mm, QR Code (15mil) 30-170mm

2D Barcode Module Honeywell N3680

2D: PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, Hanxin, etc.
1D: UPC, EAN, Code 128, Code 39, Code 93, Code 11, Matrix 2 of 5, Codabar Interleaved 2 of 5, Mis Plessey, GSI DataBar, China Postal/Korean Postal, etc. 640 pixels (H) x 480 pixels (V) High Resolution; 6.88 mil (PDF417); 0mm-50mm;

2D Barcode Module U3020

2D: QR Code, Data Matrix, PDF417, Aztec
1D: EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, MSI-Plessey, GSI Databar, Code 11, Industrial 25, Standard 25, Plessey, Matrix 2 of 5
EAN-13: 30mm-130mm (13 mil)
Code39: 30mm-50mm (5 mil 10 bit)
QR Code: 25mm-120mm (20 mil 14 bit)
Data Matrix: 30mm-70mm (10 mil 20 bit)
PDF 417: 30mm-80mm (6.67 mil 7 bit)



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OPTIONAL MODULES & ACCESSORIES

RFID Reader
Optional LF HF UHF

125K LF RFID Module

support: ID card(8H-10D)/EM4100, 4001, TK4100, EM4305
Read distance 2-5cm
(optional HID card support)

13.56M HF RFID or NFC Module

13.56M HF support ISO14443A/B/ISO15693 readable/data transmission/ Card Emulation/encryption authenticated
Read distance 2-5cm

134K LF RFID Module

Operation Frequency: 134.2KHzsupport agreement: ISO11784/5
Read distance >5cm
Working mode: FD-X-B (full-duplex communication)

UHF RFID Module/antenna

Air interface protocol: EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Operating spectrum range: 902MHz - 928MHz/865MHz - 868MHz(Optional)
Output range: 0-26 dBm
Output accuracy: +/- 1dB
Output power level: +/- 0.2dB
Read distance: 1.5-2m (2db antenna test card E41)



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OPTIONAL MODULES & ACCESSORIES

Fingerprint
Optional G2010

G2010 Module

G2010 Capacitive fingerprint sensor, FAP10, 500 dpi, 8 bit, 256X360 size, FBI MINEX III (NIST Certification)



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OPTIONAL MODULES

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Extension 2	RS232 I/O																				
Extension 3	Fingerprint Module																				
Extension 4	<table border="1"> <tbody> <tr> <td>LF RFID module</td> <td>125K LF ID card (8H-10D) 125K LF HID card module 134K LF animal tag module HID card reader module</td> </tr> <tr> <td>HF RFID module</td> <td>13.56M HF module (single protocol) 13.56M HF module (multi-protocol)</td> </tr> <tr> <td>UHF RFID module</td> <td>UHF UHF (M500 American Standard) UHF Air antenna, (long distance 6-10 meters) UHF Ultra high frequency (M500 European standard) UHF module R2000 UHF module (M550 integrated with module antenna)</td> </tr> <tr> <td>NFC</td> <td>NFC Module NFC antenna</td> </tr> <tr> <td>1D/2D Barcode Module</td> <td>Newland N1 scanner U3020 scanner N3680 scanner</td> </tr> <tr> <td>ID card module</td> <td>ID card module Antenna board</td> </tr> <tr> <td>Temperature pressure sensor</td> <td></td> </tr> <tr> <td>38K infrared module</td> <td></td> </tr> <tr> <td>Industrial-grade shortdistance data communication module</td> <td>Lora ZigBee</td> </tr> <tr> <td>Other customer supply modules</td> <td>Need to meet the interface conditions : Powered by 3.3V 1.5A/5V-1.5A, UART interface, interface level 3.3V/5V, GPIO 1/electrical level 3.3V/5V.</td> </tr> </tbody> </table>	LF RFID module	125K LF ID card (8H-10D) 125K LF HID card module 134K LF animal tag module HID card reader module	HF RFID module	13.56M HF module (single protocol) 13.56M HF module (multi-protocol)	UHF RFID module	UHF UHF (M500 American Standard) UHF Air antenna, (long distance 6-10 meters) UHF Ultra high frequency (M500 European standard) UHF module R2000 UHF module (M550 integrated with module antenna)	NFC	NFC Module NFC antenna	1D/2D Barcode Module	Newland N1 scanner U3020 scanner N3680 scanner	ID card module	ID card module Antenna board	Temperature pressure sensor		38K infrared module		Industrial-grade shortdistance data communication module	Lora ZigBee	Other customer supply modules	Need to meet the interface conditions : Powered by 3.3V 1.5A/5V-1.5A, UART interface, interface level 3.3V/5V, GPIO 1/electrical level 3.3V/5V.
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