

HUGEROCK T71EX Version: 2021

RUGGED ATEX TABLET PC
7Inch ATEX Full Rugged and Versatile Mobile Platform

Ex-Marking: II 3G Ex ic IIB T4 Gc Certificate NO. 0B191120.SSTSQ39

The HUGEROCK T71EX 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 IP67 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 5.5ft and a shock pressure test of 2 tons. The T71EX can also easily integrate professional functions, including UHF RFID, Lora, ZigBee, RS232, high-precision GNSS, etc. It also features a long-life 10000mAh intrinsically safe battery, the screen is readable in sunlight, and operates in extremely low temperatures.

- 1000 NIT FHD
- 8GRAM+ 128ROM
- 10000mAh intrinsically safe battery
- ATEX Explosion Proof
- ARM Cortex A73 octa-core (2.0GHz)
- MIL-810G Drop-proo 5.5ft
- Google GMS
- MDM Mobile Device Management by Safeum

APPEARANCE



- MIC
- Camera Button
- SOS Button
- 8 Pin Pogopin (Optional serial port)
- Handset Jack (Sealed Cover)
- SMA connector (Optional)
- Light sensor
- Sub Camera
- Type-C (Sealed Cover)
- Power Button
- Reset Button
- Volume Up
- Volume Down
- TF-card (Sealed Cover)
- SIM-card (Sealed Cover)
- Main Camera
- Pogo pin (Optional)
- Speaker

Order No : 7121Y Order No : 7121G Order No : 7121R

SPECIFICATION

Model : T71EX(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 +4.2Mbps, HSUPA +11.5Mbps), EVDO
External Memory Micro SD card (T-FLASH card), max 256GB	3G Band WCDMA(B1/2/5/8), Evdo: BCO/BC1 CDMA: BCO/BC1
Main Camera 13.0MP (AF) with flash led	4G FDD: 150Mbps down, 50Mbps UP 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 10000mAh	Wi-Fi Dual-band WiFi (2.4GHz/5GHz) single stream 802.11 a/b/g/n/ac
Display 7 inch IPS/AFFS 1200*1920 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 1.8/3.3V SIM card	Droptproof IKK MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
TF Card Micro SD card (T-FLASH card); max 256GB	Waterproof Class 7 (IEC 60529)
Headphone 3.5mm (CTIA)	Dustproof Class 6 (IEC 60529)
Charging interface Type-C*1	Operating temperature -20°C to 55°C
Data interface USB Type-C(OTG)*1	Storage Temperature -40°C to 80°C
UART (optinal) UART TTL3.3 X2 onboard	Reliability MTBF>5000h; MTRR<0.5h
RS232 (optinal) RS232X1 (M8-5pin connector or Pogopin-6pin connector) support	RH 5% to 95%
Direction Sensor support	Operating Altitude Max: 4,500m (15,000 feet)
Gravity sensor support	Certification/OS/Software
Magnetic Field Sensor support	Certification MA/3C/FCC/CE/ROHS/ATEX/IP67(IEC 60529)
Motion sensor 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
Rotation Vector support	OS Android 10.0 / 11.0
Light-sensor support	Ex-Marking II 3G Ex ic IIB T4 Gc
Acceleration sensor support	Certificate NO. 0B191120.SSTSQ39
Charger 5.0V 2A-10W	Package/Warranty terms/OEM
Navigation GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	Warranty 24 months
Appearance	OEM/ODM Support
Size 202*138*22mm (L*W*H)	Package USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box (Can be customized logo)/Aircraft box/Toolkit (optional)
Weight 700g	
Color & Material Black&yellow; Black&green; Black&Gray	

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: 134.2kHz/support 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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HUGEROCK-T71EX Tools for Explosion-proof

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OPTIONAL MODULES & ACCESSORIES

OPTIONAL

RS232 Serial port module & M8 5pin to 9pin Connector cable

RS232 Serial port module

M8 5pin to 9pin Connector cable

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OPTIONAL MODULES & ACCESSORIES

OPTIONAL

Desktop charging dock
Vehicle-mounted charging dock

The computer and the bracket are fixed by strong magnetic adsorption.

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OPTIONAL MODULES

Extension 1	NFC module
Extension 2	HD 1612(Belidou) + Ceramic Antenna HD 1612(GLONASS) + Ceramic Antenna
Extension 3	UHF module (M500 ASTM) + Antenna (M500 EN) + Antenna
	LF RFID module 125K LF ID card (8H-10D) 125K LF ID card (10D) 125K LF HID card module 134K LF animal tag module
	HF RFID module 13.56M HF module (single protocol) 13.56M HF module (multi-protocol)
	RS232 module
	Industrial-grade short-distance 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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