

# 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



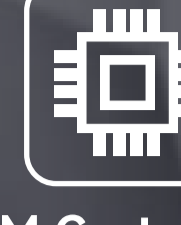
8GRAM+ 128ROM



10000mAh intrinsically safe battery



ATEX Explosion Proof



ARM Cortex A73 octa-core (2.0GHz)



MIL-810G Drop-proo 5.5ft



Google GMS



Mobile Device Management by Safeum



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## APPEARANCE



- 1. MIC
- 2. Camera Button
- 3. SOS Button
- 4. 8 Pin Pogopin (Optional serial port)
- 5. Handset Jack (Sealed Cover)
- 6. SMA connector (Optional)
- 7. Light sensor
- 8. Sub Camera
- 9. Type-C (Sealed Cover)
- 10. Power Button
- 11. Reset Button
- 12. Volume Up
- 13. Volume Down
- 14. TF-card (Sealed Cover)
- 15. SIM-card (Sealed Cover)
- 16. Main Camera
- 17. Pogo pin (Optional)
- 18. Speaker

Order No : 7121Y

Order No : 7121G

Order No : 7121R



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## SPECIFICATION

Model : T71EX(2021)

Hardware	Communications & Networking
<b>CPU</b> ARM Cortex A73 Octa-core (2.0GHz)	<b>Phone Call</b> GSM /WCDMA/CDMA 1X/VolTE
<b>GPU</b> ARM Mali-G72 MP3	<b>2G</b> GSM/CDMA 1X/EDGE/GPRS/WAP
<b>RAM</b> 8G	<b>2G Band</b> GSM (B2/B3/B8)
<b>Internal Memory</b> 128G	<b>3G</b> WCDMA 3.75G (HSDPA +4.2Mbps, HSUPA +11.5Mbps), EVDO
<b>External Memory</b> Micro SD card (T-FLASH card), max 256GB	<b>3G Band</b> WCDMA(B1/B2/B5/B8), Evdo: B0/B1 CDMA: B0/B1
<b>Main Camera</b> 13.0MP (AF) with flash led	<b>4G</b> FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink, 50Mbps uplink
<b>Sub Camera</b> 5.0MP	<b>4G Band</b> TD-LTE(B38/B39/B40/B41); FDD LTE(B1/B2/B3/B4/B5/7/8/12/17/20/28)
<b>Battery</b> 10000mAh	<b>Wi-Fi</b> Dual-band WiFi (2.4GHz/5GHz) single stream 802.11 a/b/g/n/ac
<b>Display</b> 7 inch IPS/AFFS 1200*1920 FHD industrial 1000nit Sunlight Readable	<b>Bluetooth</b> 4.2 Low Energy (LE)
<b>Touch Panel</b> Capacitive/frosted tempered film supports glove touch/spray/active capacitive pen	<b>Industrial &amp; Reliability Design</b>
<b>IO/Sensor/Navigation</b>	<b>Shake-proof</b> 1-19Hz/1.0mm; 19-200Hz/1.0g
<b>SIM Card</b> 1.8/3.3V SIM card	<b>Dropproof IKK</b> MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
<b>TF Card</b> Micro SD card ( T-FLASH card); max 256GB	<b>Waterproof</b> Class 7 (IEC 60529)
<b>Headphone</b> 3.5mm (CTIA)	<b>Dustproof</b> Class 6 (IEC 60529)
<b>Charging interface</b> Type-C*1	<b>Operating temperature</b> -20°C to 55°C
<b>Data interface</b> USB Type-C(OTG)*1	<b>Storage Temperature</b> -40°C to 80°C
<b>UART (optinal)</b> UART TTL3.3 X2 onboard	<b>Reliability</b> MTBF>5000h; MTRR<0.5h
<b>RS232 (optinal)</b> RS232X1 (M8-5pin connector or Pogopin-6pin connector) support	<b>RH</b> 5% to 95%
<b>Direction Sensor</b> support	<b>Operating Altitude</b> Max: 4,500m (15,000 feet)
<b>Gravity sensor</b> support	<b>Certification/OS/Software</b>
<b>Magnetic Field Sensor</b> support	<b>Certification</b> MA/3C/FCC/CE/ROHS/ATEX/IP67(IEC 60529)
<b>Motion sensor</b> support	<b>Language</b> 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
<b>Rotation Vector</b> support	<b>OS</b> Android 10.0 / 11.0
<b>Light-sensor</b> support	<b>Ex-Marking</b> II 3G Ex ic IIB T4 Gc
<b>Acceleration sensor</b> support	<b>Certificate NO.</b> 0B191120.SSTSQ39
<b>Charger</b> 5.0V 2A-10W	<b>Package/Warranty terms/OEM</b>
<b>Navigation</b> GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	<b>Warranty</b> 24 months
<b>Appearance</b>	<b>OEM/ODM</b> Support
<b>Size</b> 202*138*22mm (L*W*H)	<b>Package</b> USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box (Can be customized logo)/Aircraft box/Toolkit (optional)
<b>Weight</b> 700g	
<b>Color &amp; Material</b> Black&yellow; Black&green; Black&Gray	



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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: 134.2kHz/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)

RS232 Serial port module only supports one of the optional port module



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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



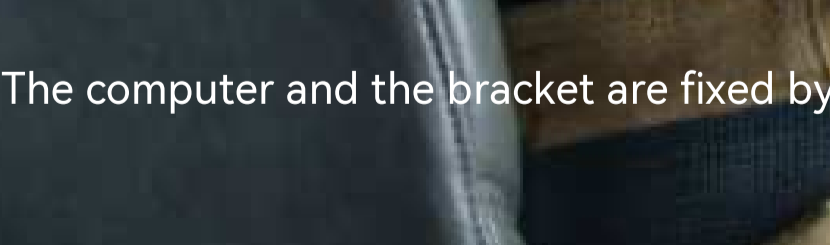
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## OPTIONAL MODULES & ACCESSORIES

**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
<b>Extension 2</b>	HD 1612(Beidou) + Ceramic Antenna HD 1612(GLONASS) + Ceramic Antenna
<b>Extension 3</b>	<b>UHF module</b> (M500 ASTM) + Antenna (M500 EN) + Antenna
	<b>LF RFID module</b> 125K LF ID card (8H-10D) 125K LF ID card (10D) 125K LF HID card module 134K LF animal tag module
	<b>HF RFID module</b> 13.56M HF module (single protocol) 13.56M HF module (multi-protocol)
	<b>RS232 module</b>
	<b>Industrial-grade short-distance data communication module</b> Lora ZigBee
<b>Other customer supply modules</b>	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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