

HUGEROCK T-SMART H101



RUGGED TABLET PC

10.1-inch Rugged Mobile Computing Solution

HUGEROCK T-SMART H101 series industrial rugged tablet is specifically engineered for harsh environments, featuring IP68 waterproof/dustproof certification and MIL-STD-810H military-standard compliance. With 1.8-meter drop resistance and stable operation from -31°C to 61°C.

Equipped with a 10-inch 1000nit high-brightness IPS display (1920×1200 resolution), supporting sunlight readability and wet/gloved touch operation. The 12,000mAh removable battery with 18W PD fast charging* and magnetic charging ensures all-day endurance. Powered by MediaTek* Kompanio 900T octa-core processor (2.6GHz), paired with 8GB RAM and 256GB* storage, supporting 5G* connectivity and precise positioning. Its modular design allows for NFC/RFID/RTK expansions, while comprehensive interfaces (USB 3.0/RS232 /HDMI)* and an advanced cooling system make it an ideal solution for geological exploration, logistics warehousing, mobile law enforcement, and other outdoor operations and industrial applications.

*Specifications may vary by model. Please refer to actual configuration details.

1 YEAR
REPLACEMENT
HUGEROCK

3 YEARS
WARRANTY
HUGEROCK

9 YEARS
SUPPORT
HUGEROCK

5G
All-mode
Full Bands

Android 14
GMS Certified

12000mAh
Removable Battery

1000 NITS
Sunlight Visible

8GB RAM
256GB ROM

-31°C
Cold Start

Technical drawing of the HUGEROCK T-SMART H101 tablet showing dimensions and features:

- Dimensions:** 254mm (width), 167mm (height), 24mm (thickness).
- Front View:** Displays the screen with time 4:50 and date Saturday, November 17. The screen also displays the 1 Year Replacement, 3 Years Warranty, and 9 Years Support badges.
- Top View:** Shows Barcode, Volume Buttons, and Power Button.
- Bottom View:** Shows 8-pin Magnetic Interface, TYPE-A, TYPE-C, TF/SIM Card Port, and 4-pin Magnetic Charging.
- Back View:** Shows Flash Lamp, Main Camera, F1/F2 Buttons, Sub Camera, Charge Lamp, and Light Sensor.

SPECIFICATION

HUGEROCK T-SMART H101

Core Hardware Specifications	
Processor	MediaTek Kompanio 900T Octa-core Up to 2.6GHz 6nm process
Graphics	ARM G68 MC4
AI Processing	APU 3.0 (2.6T)
Memory	8GB LPDDR4
Storage	256GB UFS
Expandable Memory	Expandable via microSD (supports up to 2TB)
Camera	Rear Dual Camera: Main 48MP (autofocus & LED flash) + Secondary 5MP (wide-angle) Front: 8MP camera
Battery	12,000mAh removable battery
Display	10-inch AFFS/IPS panel 1920×1200 FHD resolution 1000 nits high-luminance (sunlight-readable)
Touchscreen	Capacitive touchscreen Glove-touch support Anti-fog coating Active stylus compatible

Interfaces & Sensors	
Card Slots	Dual nano-SIM + microSD (triple slot, dual-SIM or SIM+SD)
Charging	Type-C , 4-pin magnetic charging (5V/2A)
8PIN Magnetic Docking Interface	Reverse Power Supply (5V Output)/ USB Host (with HUB function, capable of expanding external RJ45 Ethernet port, serial port, USB port)
Data Ports	USB Type-A (Host) ×1, Type-C (OTG) ×1, 8PIN Magnetic Docking Interface ×1
Sensors	Gravity, Geomagnetic, Gyroscope, Rotation vector, Ambient light, Accelerometer
Charger	5V 2A, 9V 2A, Support PD fast charge protocol
Navigation	L1+L5 GPS/BeiDou/GLONASS/Galileo/QZSS with AGPS/SBAS support

Design & Durability	
Dimensions	254*167*24mm (L×W×H)
Weight (Including hand strap)	942g
Material	Black & gray PC-ABS-TPU composite

Connectivity	
Cellular	WCDMA/LTE-TDD/LTE-FDD/5G NR
2G /3G/4G/5G	2G: GSM 850/900/1800/1900MHz 3G: WCDMA B1/B2/B5/B8 (42.2Mbps DL / 11.5Mbps UL) 4G: FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink , 50Mbps uplink Band: TDD-LTE (B34/38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17/20/26/28a&b) Cat-18 5G NR SA n1/n3/n20/n28/n41/n77/n78/n79 5G NR NSA n1/n3/n41/n7 DL 4x4 n1/n3/n41/
Wireless	Dual-band Wi-Fi (2.4GHz/5GHz), 802.11 a/b/g/n/ac/ax, Wi-Fi 6 2×2 BT 5.2 LE

Environmental Ratings	
Vibration	1–19Hz/1.0mm amplitude; 19–200Hz/1.0g acceleration
Drop Resistance	MIL-STD-810H compliant (1.8m) IK08 impact protection
Water/Dust resistance	IP68 (IEC 60529)
Operating Temperature	-31°C to 61°C
Storage Temperature	-40°C to 80°C
Reliability	MTBF>5000h; MTTR<0.5h
Humidity	5% to 95% (95%RH, non-condensing)
Altitude	Up to 4,500m (15,000 feet)

Certifications & Software	
Certifications	3C/FCC/CE/ROHS/IP68 (IEC 60529)
Language	Chinese (Simplified/Traditional), English, Spanish, Portuguese (BR/PT), Italian, German, Dutch, French, Polish, Romanian, Turkish, Russian, Arabic, Indonesian, Malay, Thai, Vietnamese, Hindi, Hebrew
OS	Android 14 (GMS Certified)

Packaging & Warranty	
Warranty	36-month device warranty (12-month battery warranty)
Package	Type-C cable ×1,, Pre-applied screen protector ×1, Packaging box ×1, User manual ×1, Safety card ×1, Magnetic charging cable ×1, Hand strap ×1

Order No.	Model	Function Desscription
--	T-SMART H101 (5G-M60)	HUGEROCK/H101-M60-R/8GB+256GB/Black/1920*1200/1000nits/48MP+5MP/E20/NFC

MODULE SPECIFICATIONS

NFC Module		P/N: 01250227
Feature Overview	Integrated NFC module with standardized API interfaces, enabling mobile payment solutions and bank card transactions.	
Operational Modes	Read/Write: Full read/write capability for NFC tag data storage and retrieval. Card Emulation: Mimics NFC cards for contactless payment systems and secure access control. Peer-to-Peer: Facilitates seamless data exchange between NFC-compatible devices.	
Performance Metrics	Effective Range: 20-50mm tag interaction distance. Frequency: 13.56MHz high-frequency operation.	
Supported Standards	RF Protocols: ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18092, NFC Forum specifications. Tag Compatibility: Comprehensive support for industry-standard cards, Including: MIFARE S50/S70, Ultralight, NTAG 203/213/215/216, FM1204/FM1208, DESFire EV1 (D21/D41/D81),SRI512/SRIX4K, iCODE, HF Tagit, and derivatives.	
Barcode Module: E20 Barcode Scanner Module		P/N: 02690141
2D	QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode, Hanxin Code, Dotcode, Composite.	
1D	Code 128 (ISBT 128, AIM 128, GSI 128), EAN-13, EAN-8, UPC-E, UPC-A, ISBN, ISSN, Code11,Interleaved 2 of 5, Code39, Code93, Code32, Codabar, Matrix 2 of 5, Industrial 25, IATA25, MSI Plessey, GSI DataBar, Plessey, Febraban.	

