

HUGEROCK T-SMART H81



RUGGED TABLET PC

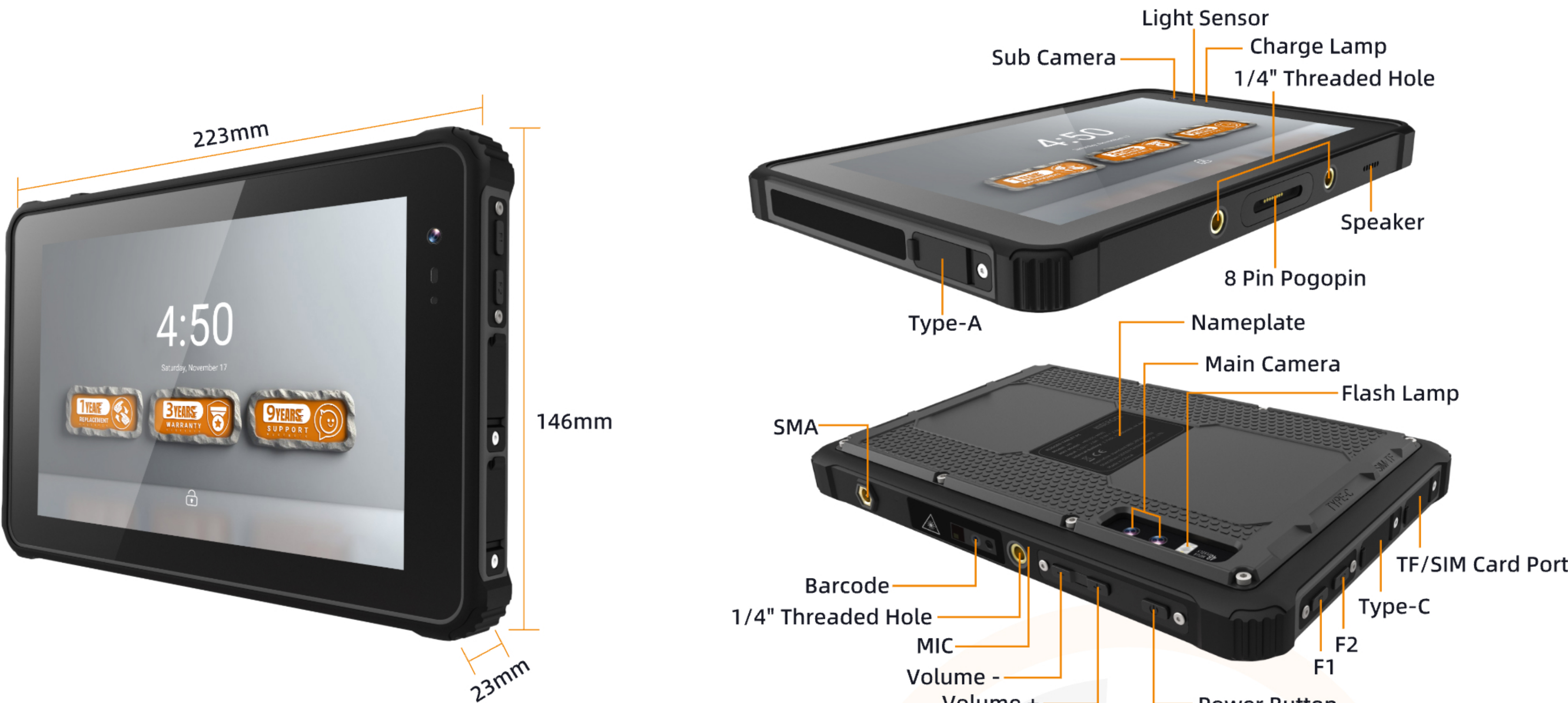
8-inch Rugged Mobile Computing Solution

Built for extreme environments, The HUGEROCK T-SMART H81 features IP68 waterproofing, 1.8m drop resistance, and -31°C to 61°C operating range, meeting MIL-STD-810H and IK08 impact standards. Its 1000-nit sunlight-readable display ensures clear visibility, while the 12,000mAh swappable battery with PD fast and magnetic charging provides all-day power.

The modular design supports multiple hardware configurations and 11+ expansion modules (NFC, RFID, RTK, etc.), making it ideal for geological surveying, logistics, smart manufacturing, and public safety. A graphene + aerospace aluminum cooling system and anti-shock structure enhance durability, reducing maintenance costs and extending lifespan. The H81 is the ultimate solution for field operations, law enforcement, and industrial automation.



All-model Full Bands	Android 14 GMS Certified	12000mAh Removable Battery	1000 NITS Sunlight Visible	8GB RAM 256GB ROM	-31°C Cold Start



SPECIFICATION

HUGEROCK T-SMART H81

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 RAM
Storage	256GB UFS
Expandable Memory	Expandable via microSD (supports up to 2TB)
Camera	Rear Dual Camera: Main: 48MP with autofocus & electronic flash Secondary: 5MP wide-angle lens Front: 8MP front-facing camera
Battery	12,000mAh removable battery
Display	8-inch AFFS/IPS panel 1920x1200 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 8-pin magnetic connector
Data Ports	USB Type-A (Host) ×1 Type-C (OTG) ×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	223 × 146 × 23mm (L×W×H)
Weight (Including hand strap)	886g
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 6 2x2 (2.4/5GHz, 802.11a/b/g/n/ac/ax) 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
05121135	T-SMART H81 (5G-M60)	HUGEROCK/H81-M60-R/8GB+256GB/Gray+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.	

