

HUGEROCK T-SMART H101



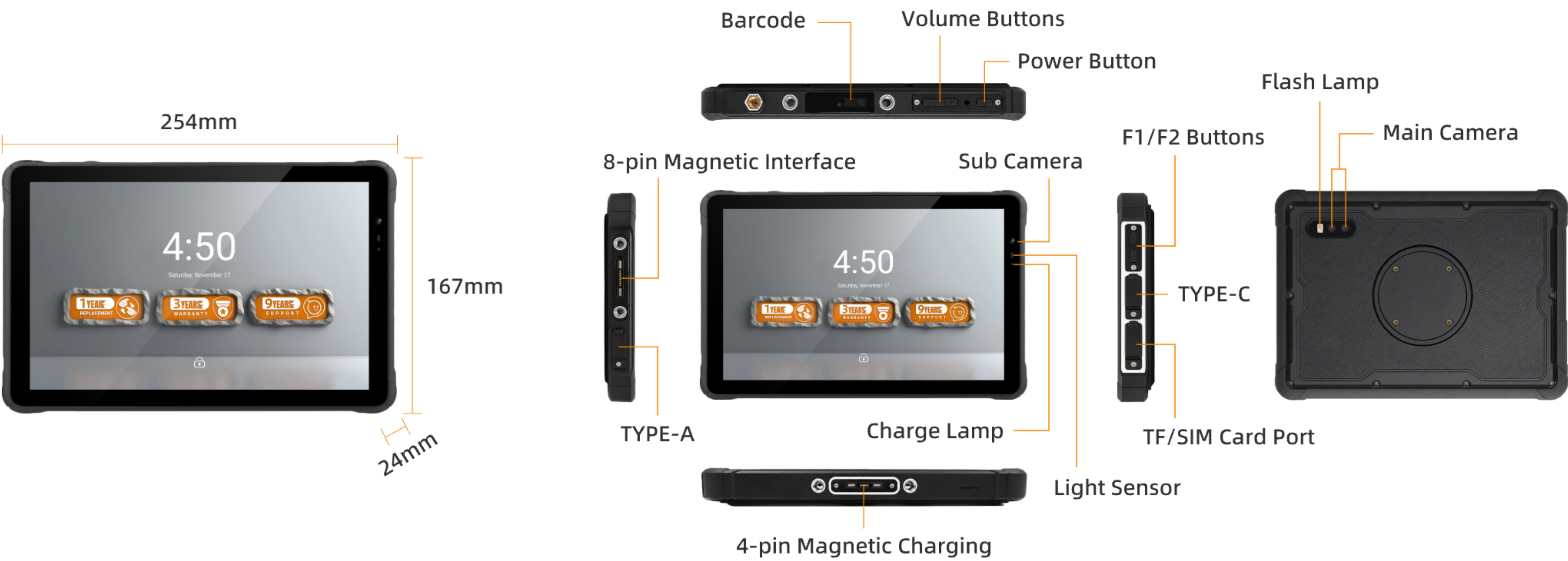
RUGGED TABLET PC

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 55°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.



Specification

HUGEROCK T-SMART H101

Hardware	
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 (supports HUB functionality for external expansion of RJ45 Ethernet port, serial port, and USB ports)
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

Appearance	
Size	254*167*24mm (L×W×H)
Weight (Including hand strap)	942g
Color & 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
Dropproof /IK	MIL-STD-810H compliant (1.8m) IK08 impact protection
Water/Dust resistance	IP68 (IEC 60529)
Operating Temperature	-31°C to 55°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)
Packaging box	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

*Detailed specifications vary by version. Refer to the differences table for details.

MODEL COMPARISON TABLE

HUGEROCK T-SMART H101

	T-SMART H101 (5G-M60)	T-SMART H101 (4G-M50)	T-SMART H101 (4G-M40H)
Processor	MediaTek Kompanio 900T Octa-core Up to 2.6GHz 6nm process	MediaTek Helio G99 Octa-core Up to 2.2GHz 6nm process	ARM Cortex A73 octa-core(2.1GHz) 12nm
Graphics	ARM G68 MC4	Arm MaliTM-G57 @ 850 MHz	ARM G72 MP3@700MHz
AI Processing	APU 3.0 (2.6T)	/	Tensilica VP6x2 (~0.75 Tops)
Memory	8GB LPDDR4	8GB LPDDR4	8GB LPDDR4
Storage	256GB UFS	256GB UFS	128GB
Charging	Type-C 4-pin magnetic connector	Type-C 4-pin magnetic connector	Type-C 4-pin magnetic connector
Data Ports	USB 3.0 Type-C interface, USB Type-A (Host) ×1, Type-C (OTG) ×1, 8-pin magnetic DOCKIN interface	USB Type-A (Host) ×1, Type-C (OTG) ×1, 8-pin Magnetic DOCKIN Interface	USB Type-A (Host) ×1, Type-C (OTG) ×1, 8-pin Magnetic DOCKIN Multifunction Expansion Interface
Navigation	L1+L5 GPS/BeiDou/ GLONASS/Galileo/QZSS with AGPS/SBAS support	GPS/BeiDou/GLONASS/Galile/ QZSS with AGPS/SBAS support	GPS/BeiDou/GLONASS with AGPS/SBAS support
Cellular	WCDMA/LTE-TDD/LTE-FDD/5G NR	GSM /WCDMA/VoLTE	GSM /WCDMA/VoLTE
3G Communication and Data	WCDMA 3.75G (HSDPA+42.2Mbps, HSUPA+11.5Mbps)	WCDMA 3.75G (HSDPA+42.2Mbps, HSUPA+11.5Mbps)	WCDMA 3.75G (HSDPA+42.2Mbps, HSUPA+11.5Mbps)
3G Band Support	WCDMA(B1/5/8)	WCDMA:B1/2/4/5/6/8	WCDMA(B1/2/5/8)
4G Communication and Data	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps , 50Mbps up	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink , 50Mbps uplink	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps , 50Mbps up
4G Band Support	TDD-LTE (B34/38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17 /20/26/28a&b) Cat-18	TDD-LTE (B34/38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17 /20/26/28a&b) Cat-13 DL	TDD-LTE (B38/39/40/41); FDD LTE (B1/B2/B3/B4/B5/B7/B8/B12 /B17/B20/B28)Cat-7 DL / Cat-13 UL
5G Communication	5G NR SA n1/n3/n20/n28/n41/ n77/n78/n79 5G NR NSA n1/n3/n41/n7 DL 4x4 n1/n3/n41/	/	/
Wi-Fi	Dual-band Wi-Fi (2.4GHz/5GHz), 802.11 a/b/g/n/ac/ax, Wi-Fi 6 2×2	IEEE 802.11 b/g/n/ac dual-band Wi-Fi (2.4GHz/5GHz)	Dual-band Wi-Fi (2.4GHz/5GHz), 802.11 a/b/g/n/ac
BT	5.2 LE	5.2 LE	5.0 LE
OS	Android 14 (GMS) Certified	Android 15 (GMS) Certified	Android 13 (Android 9.0/10/11 Available)

Order No.	Model	Function Desscription
--	T-SMART H101 (5G-M60)	HUGEROCK/H101-M60-R/8GB+256GB/Black/1920*1200/1000nits/48MP+5MP/E20/NFC
--	T-SMART H101 (4G-M50)	HUGEROCK/H101-M50-R/8GB+256GB/Black/1920*1200/1000nits/48MP+5MP/E20/NFC
--	T-SMART H101 (4G-M40H)	HUGEROCK/H101-M40H-R/8GB+128GB/Black/1920*1200/1000nits/32MP/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.	

