



TCx® M7 Technical Specifications

FEATURES	
Product Name	TCx M7
Display	6.5", 720 x 1600 HD Multi-touch Capacitive Screen
Memory	8GB RAM + 128GB ROM
Processor	Octa-core (2* Cortex – A76 2.2GHz + 6* Cortex – A55 2.0GHz)
Operating System	Android 13, Upgradeable to Android 17 GMS Certified
Connectivity	Wireless: Wi-Fi 5, 802.11 a/b/g/n/ac (2.4GHz/5GHz) GSM – Band 2/3/5/8 3G – Band 1/2/5/8 4G LTE – Band 1/2/3/4/5/7/8/12/14/17/25/26/38/40/41/66 Bluetooth 5.2 GNSS – GPS / Galileo / Glonass / Beidou / A-GPS NFC – Supports ISO/IEC1443 Type A&B, Mifare Card, Felica Card, ISO15693 Card
Peripheral Ports	USB Type-C x 1 (Support OTG), TF Card x 1 (up to 128GB), Nano SIM x 1, PSAM x 1 (Optional), Dock Pogo pin (2 pin), Trigger handle Pogo pin (6 pin)
Power Adapter	Input: 100 ~ 240V; Output: 9V / 2.22A, Fast Charging PD20W (Adapter)
Camera	2MP front camera, 13 MP rear camera (with flash)
Scanner	Supports 1D/2D Barcode Scanning
Battery	Capacity: 3.87V / 5000mAh / 19.35Wh, field swappable
Button	Power key, Vol+/Vol- key, Scanning keys on left and right sides, Function key x1 (customizable)
Speaker	2W
Environment	Operating temperature: -10 ~ 50°C Storage temperature: - 20 ~ 60°C Operation Humidity 5% - 95% RH (non-condensing) ESD - +/-15kV air, +/-8kV direct
Certification	FCC CE IMDA WEEE
Protection Level	IP68, Drop Test: 1.5m (1.8m with protective case)
Dimensions	180.5 X 81.4 X 17.2mm
Weight	280g
Accessories	Multi-bay charging dock (4-slots), Protective Case with hand strap, Spare Battery, Trigger Handle, UHF RFID Reader (coming soon)

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TCx® M7 UHF RFID Reader (coming soon)



ITEM	FEATURES	SPECIFICATION DESCRIPTIONS	NOTE
RFID Module	Model	SIM7100	
	Operation Frequency	902-928 MHz / 865-868 MHz	
	Antenna	4dBi circularly polarized antenna	
	Read Range	Maximum reading distance: 15 meters; default power: 33 dBm	
	Reading Tags Speed	Maximum: >1000 tags per second	
Battery	Specification	6800mAh, 3.65V, removable, with contact pins	
	Charging/Power supply logic	<p>1. When the charger is not connected, the RFID module is powered only by the handle battery.</p> <p>2. When the main unit is connected to a charger (via Type-C or docking station), it provides 5V 0.5A charging to the handle battery through pogo pins.</p> <p>3. When the handle's Type-C is connected for charging, the handle battery receives 5V 1.5A charging.</p>	
Indicator	Charging indicator light	<p>Red-Green Bicolor LED</p> <ul style="list-style-type: none"> - Not charging: Off - Battery below 25%: Red LED blinks ("On 250ms, Off 750ms") - Charging: Red LED steady on - Fully charged: Green LED steady on 	
Physical Buttons	Trigger	One trigger button, which by default controls the RFID module.	
	Maintenance	Hidden tact switch, used for after-sales service in case of firmware upgrade failure.	
Port	Pogo pin	YES (6Pin)	Connect to TCx® M7 main unit
	DC	Type-C charging port	
Adapter	Input	100Vac ~ 240Vac 50Hz/60Hz	Common charger for the main unit
	Output	9V2.22A	
Environment	Operation Temperature	-10°C ~ 50°C	
	Storage Temperature	-20°C ~ 60°C	
	Operation Humidity	5% ~ 95%	
	IP Rating	IP54	
	Drop-proof	1.2m	
Certification	Battery certification	CQC/CE/UN38.3/CB/UL/BIS/MSDS	
	Safety & Legal related	CE/FCC/RoHS/WEEE	
Compatibility Requirements	Compatibility requirements with main unit and accessories	After the main unit is fitted with the wrist strap, it can be properly inserted into the RFID handle for use. The entire assembly can be placed into the single charger and multi-charger dock without interference.	
Software Requirements	Software Requirements	<p>The handle battery can report its power level (acceptable in 25% increments) to the main unit; when the battery is low, the main unit will issue a warning.</p> <p>When RFID is read, it triggers the main unit's speaker to sound.</p>	