G02 UHF Handheld RFID Terminal

—: Product Overview

ZS-G02 is a high-performance, next-generation RFID data collection device that combines exceptional functionality with superior efficiency. Equipped with an advanced RFID module—integrating an RF front-end and a digital baseband signal processing unit—it delivers outstanding RFID read/write performance. The ZS-G02 is ideally suited for large-scale inventory operations, enabling rapid and accurate bulk tag reading that significantly boosts operational productivity.

Featuring a new-generation, high-performance antenna, the ZS-G02 offers enhanced stability and reliability in tag reading, ensuring precise, real-time data acquisition. Its rugged design, IP65 ingress protection rating, and ergonomic grip make it well-suited for demanding environments and extended periods of use. A 4000mAh detachable battery provides long-lasting power, meeting the rigorous demands of industrial applications.





二：Product Features

1. **Extended and Efficient Performance**

a. **Long Reading Range**: Reads RFID tags up to 20 meters, perfect for large-scale inventory, logistics, and warehouse management.
b. **High-Speed Multi-Tag Scanning**: Processes over 500 tags per second with **anti-collision** technology for fast and accurate operations.

2. **Durability for Harsh Environments**

a. **Rugged and Reliable**: **IP65**-certified for dustproof and waterproof protection, designed to perform in extreme industrial conditions.
b. **Impact-Resistant Build**: Withstands drops, shocks, and rigorous handling, ensuring long-term reliability.

3. **All-in-One Functionality**

a. **Integrated Features**: Combines UHF RFID reading, barcode scanning (1D/2D), and a **13MP HD** camera in a single device for multi-purpose operations.
b. **Versatile Connectivity**: Seamlessly connects via **4G** LTE, **Dual-Band Wi-Fi**, **Bluetooth 5.0**, and optional **NFC** for real-time data transfer.

4. **Ergonomic and User-Friendly Design**

a. **Bright Touchscreen**: Equipped with a 5.5-inch HD display for clear visibility and intuitive operation.
b. **Lightweight and Ergonomic**: Designed with a comfortable grip to reduce user fatigue during extended usage.

5. **Powerful Battery Life**

a. **Long-Lasting Operation**: High-capacity 4000mAh battery with fast-charging capability ensures uninterrupted workflows for extended tasks.

6. **Seamless Integration**

a. Easy Development: Ready-to-use SDK supports multiple programming languages for quick integration with existing systems.

三: Product Specifications

Mechanic Specifications	Parameters
Processor	Octa-core MT6762 2.0GHz, 64-bit high-performance CPU
RAM/ROM	4GB + 64GB (Expandable via Micro SD card up to 256GB)
Operating System	Android 10.0 / Android 13.0
Antenna	Circularly polarized antenna, 4.65dBi gain
RFID Engine	High-tech Energy UHF Reader Engine
Frequency	China: 920–925MHz
	US: 902–928MHz
	EU: 865–868MHz (Customizable for other regions)
Protocol Support	EPC C1 GEN2 / ISO 18000-6C
Read Distance	Up to 20 meters
Read Rate	>1000 tags/second
Communication & Connectivity	
Wireless Communication	4G LTE, Wi-Fi (2.4GHz/5GHz), Bluetooth 5.0, GPS, Galileo, Glonass, BeiDou
Ports	Type-C USB 2.0 (OTG support), POGO pin
SIM Slots	1* NANO SIM, optional PSAM*2
NFC (Optional)	Frequency: 13.56MHz
	Protocol: ISO14443A/B, ISO15693
	Read Distance: 2–5 cm
Physical Parameters	
Dimensions	179mm * 74.5mm * 150mm (including handle)
Weight	<750g (varies by configuration)
Display	5.5-inch screen, 720×1440 resolution, >500cd/m² brightness
Battery	Removable 7.6V 4000mAh polymer battery (equivalent to 3.8V 8000mAh)
	Standby Time: >350 hours
	Charging Time: <3 hours

Data Collection	
1D/2D Barcode Scanning	UPC/EAN, Code128, QR Code, Datamatrix, PDF417, Aztec, etc.
Cameras	Rear: 13MP HD camera with autofocus, flash, and macro mode
	Front: 2MP color camera
Durability & Environment	
Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 70°C
Humidity	5%–95% RH (non-condensing)
Drop Resistance	1.2m drop-tested on all sides
Roll Test	Survives continuous 0.5m rolling tests
IP Rating	IP65 water and dust resistance
Key Features	
Ergonomic Design	Comfortable grip reduces user fatigue
Multi-Tag Reading	High-speed, reliable bulk tag scanning
Real-Time Data Synchronization	Seamless communication via 4G, Wi-Fi, and Bluetooth
Expandable Storage	Supports up to 256GB external memory
Application Flexibility	Suitable for inventory management, asset tracking, logistics, and field operations
Accessories	
Standard	Adapter, data cable, screen protector, user manual