

SG-1003

Dedicated to Supply Chain Warehousing



lot Handheld Terminal

Octa-Core | Android 12 | IP65 Sealing | 10000mAh

The SG-1003 is a 10.1-inch high-performance rugged industrial handheld terminal and tablet tailored for supply chain warehousing, logistics, and demanding industrial applications. Powered by a robust octa-core processor and running on Android 12.0 , it supports 4G LTE full network connectivity and dual-band Wi-Fi to ensure seamless, real-time data transmission in complex environments.

Designed for comprehensive data collection, the SG-1003 integrates advanced 1D/2D barcode scanning , NFC , and optional UHF RFID capabilities. With a massive, removable 10000mAh battery , it effortlessly supports over 12 hours of intensive continuous operation.

Built to endure the harshest environments, the SG-1003 features an IP65 sealing rating , withstands 1.5-meter drops onto marble surfaces , and operates reliably in extreme temperatures ranging from -20°C to 60°C —making it the ultimate tool to optimize digital warehouse management and field workflow efficiency.

Product Specifications

Performance

Octa-core	
CPU	MT8788, ARM 8core 64bitt 2.0GHz CPU
GPU	ARM Mail-G72 MP3@700MHZ
RAM+ROM	6GB + 128GB / 8GB + 256GB
System	Android 12.0

Data Communication

WIFI	Wi-Fi 802. 11a/b/g/n/r/ac (2. 4G+5G Dual-band Wi-Fi)
WWAN	2G (GSM) : 2G :B2/B3/B5/B8
	3G (WCDMA) :B1 /B2/B5/B8
	4G(FDD-LTE):B1/B2/B3/B4/B5/B7/B8/B17/B20/B28 A/B28B
	LTE-TDD:B38/B39/B40/B41
Bluetooth	Bluetooth 4.0 transmission distance Max: 10m
GNSS	Built-in GPS、Glonass、BEIDOU Galileo

Physical Specifications

Dimensions	274.9 x 188.7 x 23.1mm
Weight	1034g
Display	10.1-inch TFT screen 16:10, Resolution1200x1920, 500nits
TP	5/10 dot capacitive screen
Battery capacity	Removable 10000mAh/3.8V
	Standby time > 500 hours
	Working time > 12 hours
	Charging power: 15W
	Built-in polymer lithium-ion battery
	Charging indicator light: The red light flashes when the battery is low, the red light stays on when charging, and the green light stays on when the battery is fully charged.
Expansion Card slot	Supports TF *1,sim card slot *2,Type-C*1, PSAM*1
Communication interface	Type-C 2.0 USBx1,USB 2.0 Type-A * 1, Support OTG function
RJ45	100MB/S transfer rate speed
HDMI	HDMI*1
pogo Pin	9pins Pogo Pin *1
Audio	Speaker (mono), microphone, receiver
Keypad	1 power button + 1 scan button + 1 volume buttons
Sensors	Gyroscope *1,Gravity sensor *1,Vibration motor *1

Language/Input Method

Data Collection

Barcode Scanning (optional)	
1D Symbologies	Support UPC/EAN, Code129, code39, code11, cross 25 code, codabar, MSI, etc.
2D Symbologies	Supports QR, PDF417, Mirco QR, RSS, Aztec, Maxicode, etc.

Camera (Standard)

Rear camera	13MP HD camera, auto focus, flash, anti-shake, macro shooting
Front camera	5MP color camera

NFC (Standard)

Frequency	13.56MHz
Protocol	ISO/IEC 14443A/B,ISO15693
Distance	card reading distance:≤ 4cm

Fingerprint module(optional)

Ministry of Public Security certified fingerprint/
FBI certified fingerprint module

UHF RFID (optional)

spectrum range	902MHz - 928MHz /865MH z - 868MH z (optional)
Security module	EPCglo bal UH F Class 1 Gen 2/ ISO 18000 - 6 C
Recognition speed	>50 sheets/second
Read and write distance	1 - 2 meters (depending on label)

User Environment

Operating temperature	-20°C - 60°C
Storage temperature	-30°C - 70°C
Environment humidity	0~95%RH (no condensation)
Environment humidity	temperature range, 6 sides can withstand a height of 1.5 meters,falling to the marble.
Rolling test	0.5m continuous rolling, 1000 times
Sealing	IP65

Accessories

Standard	Box*1, machine*1, USB data cable*1, Instruction manual*1, charger*1, wrist strap*1
Optional	Equipment pendant(Used for equipment that requires a fixed position)