

RK96 Cold Storage

Improve Productivity in Cold Storage with Unstoppable Performance

RK96 Cold Storage is designed for modern cold-chain warehouse and logistics, featuring intelligent environmental sensing and fog-free scanning. Its power-optimized architecture supports a wide temperature range for seamless workflow. Equipped with a Qualcomm Q-6690 Octa-core processor (up to 2.9 GHz), it offers Wi-Fi 7, Bluetooth® 6.0, and edge AI computing for enhanced uptime, scanning accuracy, and consistent performance across all facility zones.



Extreme Cold Native Operation

The RK96 Cold Storage is equipped with a high-performance scan engine and sealed device design (IP65) that operates efficiently at temperatures as low as -30 °C (-22 °F). Its 5500mAh battery is specially designed to maintain capacity in low temperatures, ensuring reliable data capture and seamless productivity.



Larger and Tactile keypads for Glove-friendly Use

With larger keys and wider spacing, users experience fewer mis-presses and smoother input — even with gloves on. RK96 Cold Storage offers 38-/41-/47-/53-key keypad options to support evolving data entry needs and diverse business application, ensuring flexible configuration and seamless deployment.

Frost-free Operation in Extreme Temperatures

The RK96 Cold Storage model provides reliable scanning in freezing environments with an integrated ITO heating film for quick defogging. Its temperature sensor and heater control software can automatically or manually adjust heating, ensuring uninterrupted workflows during sudden temperature changes.



E-ink Display for Enhanced Asset Management and User Identity

An always-on E-Ink Display* on the back can provide clear, consistent, and essential information while consuming minimal power, making it perfect for identifying and durable enough in warehouse environments.

* The E-Ink display preserves the last configured information for clear and dependable viewing under 0°C.





Performance	Operating System	Android 15 (GMS and AER certified) ,Upgradable to Android 18* ¹
	CPU	Qualcomm Q-6690 Octa-core, up to 2.9GHz, Edge AI enabled
	Memory	128GB FLASH / 8GB RAM
	Expansion	Micro SD Slot With SDHC (up to 32 GB) and SDXC (up to 2TB) Support
	Operating Power	Cold Storage: Rechargeable 3.7V 5500 mAh Li-ion Battery ; Hot swap battery backup with temporary session persistence
	Working Hours ²	Cold Storage: Min. 5 working hours at -30oC (-22oF)
	Alert	LED indicators for RF, charging status, scanning status 2 rectangle LED at sides / Haptic feedback vibration / Speaker with smart amplifier driver
	Interface Supported	USB 3.1 Gen 1 Type-C / USB 2.0 with OTG
Wireless Communication	WLAN security	WEP, WPA (PSK, TKIP), WPA2 (AES, PSK), WPA-1X (TKIP,EAP-TLS, PEAP), WPA2-1X (AES, EAP-TLS, PEAP) ,802.1x (EAP-TLS, PEAP) AES-CCMP, WPI-SMS4, WPS2.0, WAPI, EAP-TTLS (PAP, MSCHAP, MSCHAPv2), PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD
	WLAN	IEEE 802.11 a/b/g/n/ac/ax/be/d/h/i/r/k/v/w ; Wi-Fi 7 (802.11be) , IPv4, IPv6, 2x2 MU-MIMO
	Additional WLAN Features	802.11r (fast roaming), 802.11 v/k (Voice-Enterprise) ,dual-band simultaneous(DBS),high-band simultaneous(HBS), tri-band 2.4GHz/5GHz/6GHz Multi-Link Operation (MLO) and eMLSR 320 MHz
	WPAN	Bluetooth® Class II, V6.0 dual mode, V2.1 with Enhanced Data Rate (EDR);BLE long range
Data Capture	Barcode Scanning	1D /2D Imager (SE4750SR/SE4750MR; Extended-Range SE5800)
	Camera	Rear: 16 megapixels PDAF with LED flash and Optical Image Stabilization (OIS) / Front : 5 megapixels
	NFC	Supports ISO14443A, ISO14443B, ISO15693, Mifare, Felica (Peer-to-Peer, Card Reader, Card Emulation)
Physical Characteristics	Display	4.3" WVGA color display, Capacity Touch supports bare/wet/gloved finger and stylus inputs, Corning Gorilla Glass
	E-ink Display	1.3" e-INK 144x200 pixel; display color: Red/Yellow/Black/White
	Touch Panel	Corning® Gorilla® Cover Glass, Capacitive touch supports stylus, bare or gloved fingertip input multi-touch, allow water rejection and wet finger
	Interactive Sensor Technology	Light sensor, Proximity sensor, Motion sensor, E-compass, Gyroscope, Temperature sensor for Cold Storage
	Keypad	38-Key/41-Key Numeric/Function Keypads, 47-Key/53-Key Alphanumeric Keypads with LED backlight
	Voice and Audio	PTT voice ; Speaker, Microphones with noise reduction and echo cancellation, Bluetooth® headset
	Size (LxWxH)	227.6 mm x 79.8 mm x 43 mm (terminal) / 227.6 mm x 79.8 mm x 167.5 mm (Gun type)
	Weight	Standard: 538.2 g (7000 mAh) with 2D imager
User Environment	Operating temperature	Cold Storage: -30°C to 50°C/-22°F to 122°F
	Storage Temperature	-30°C to 70°C / -22°F to 158°F
	Humidity (Non-Condensed)	Operating 5% to 95% / Storage 5% to 95%
	Impact Resistance	IP65 / 1000 (1 m) Tumbles Standard: 1.8 m / 2.4 m with Rubber Boot, multiple drops onto concrete (MIL-STD-810G),crossing operating temperature Cold Storage: 1.5 m multiple drops onto concrete (MIL-STD-810G), crossing operating temperature down to -30°C (-22°F)
	Electrostatic Discharge	± 15 kV Air Discharge, ± 8 kV Contact Discharge
	Regulatory Compliance	FCC / BC / CA65 / TSCA / NCC / BSMI / CE / WEEE / RoHS / REACH / Erp / BIS / WPC / IC / NrCAN / RCM (the regulatory compliance for WWAN model is available on request, NRE and MOQ may apply)
	Development Support	CipherLab API and Android 15 Standard API
Application Software	Reader Config, Terminal Emulation, Button Assignment, Device Health Dashboard, LogGen, AppLock, A-Demo, Configuration, Ping Tool, Software Trigger key, Enterprise Settings, SIP Controller, BarcodeToSetting, Pic 'n Fill™ OCR	
Certified Application	SOTI MobiControl, Ommissa Workspace ONE (Vmware AirWatch), Ivanti, ReMoCloud, ReMoCloud Express, EnDeCloud, StayLinked, Springdel	
Accessories ³	Snap-on Cable (USB), Pistol Grip, Rubber Boot, 4-slot Battery Charger, 5-slot Terminal Charging Cradle, 20-slot Battery Charger, Multi-slot Charging Cradle with Battery Charger, Charging and Communication Cradle, Hand Strap, Shoulder Strap, Belt Holster, Pistol Grip Strap	
Warranty	3 years	

1. The Android version is subject to technical feasibility confirmed by Qualcomm. Please contact us for availability.
2. Minimum 5 hours : 2D imager scanning every 20 seconds, LCD at 50% backlight, and speaker on (default volume) at -30°C, Bluetooth® off, IEEE 802.11 a / b / g / n / ac on, pre-heat enabled. The test is based on one broadcasting packet per second.
3. Compatible with RK95 Series accessories, except for the new development.
4. Products specifications are subject to change without prior notice.

ACCESSORIES

