

KOAMTAC

KDC1250

Universal Magnetic UHF Reader



Universal Magnetic UHF RFID Reader for Smartphones

The KDC1250 Universal Magnetic UHF Reader brings fast, medium-range RFID performance to smartphones through magnetic attachment with no custom case, tools, or modifications required. Built for magnetic-ready devices or cases, the KDC1250 installs and removes in seconds, making it ideal for shared devices, temporary deployments, and flexible mobile operations. Simply attach, pair, and start reading RFID tags for inventory tracking, asset management, retail operations, and logistics applications.

100 Village Blvd, Suite 300, Princeton, NJ 08540 USA
T: +1-609-256-4700
info@koamtac.com www.koamtac.com

© 2026 KOAMTAC, Inc.
KDC1250 - 20261104

KDC1250

Universal Magnetic UHF Reader



The KDC1250 is supported by our Unified SDK, enabling rapid integration with Android, iOS, Xamarin, Cordova, React Native, Flutter, and Web applications. Technical support from the KOAMTAC engineering team is available to assist with development, integration, and deployment.

Enhanced RFID Performance

The KDC1250 incorporates a high-performance UHF RFID module and antenna system that delivers higher tag read rates and extended read range. This optimization allows the KDC1250 to capture more tags in less time to accelerate inventory counts, asset tracking, and shipment verification.

Tool-Free, Magnetic Installation

Traditional RFID readers mean carrying a dedicated handheld device. Sled and case-based smartphone readers solve that but often lock you into a single phone model. The KDC1250 is universal. It attaches magnetically to any supported smartphone or magnetic case. Install it, remove it, or move it to another device in seconds. No tools, no modifications, no model-specific hardware. One reader works across a mixed-model fleet, and across the next fleet refresh too.

Instant Pairing and Setup

A BLE pairing QR code printed directly on the KDC1250, or an NFC antenna on the back of the device, enables quick and consistent Bluetooth setup. Users simply scan the pairing QR code or tap their NFC-enabled smartphone to establish a secure wireless connection and begin reading RFID tags.

Replaceable Battery with Fast Charging

The KDC1250 features a rechargeable, user-replaceable battery that can be swapped in seconds to minimize downtime. It charges via USB-C, or through compatible MUA charging cradles that support fast charging and enable convenient dock-and-charge operation for the KDC1250.

Product Specs & Details

RFID Details
Standards Supported: EPC Class1 Gen2, EPC Gen2 V2, EPC Gen2 V3
Nominal Read Range: Up to 9.8′ (3.0 m) dependent on tag type and operating environment
Frequency: US, EU
Output Power Range: +1 to +27 dBm
Read Rate: 170 tags per second
Stores: 409,600 RFID tags (EPC Data)

Interfaces
Bluetooth® Low Energy 5.0: HID (Android/iOS/Windows), SPP

Electrical Characteristics
Charging: 5V USB-C, Charging Cradle via Pogo Pins
Battery: 3.7V DC, 1100mAh Lithium-Ion

Physical Dimensions
2.52" x 4.65" x 0.88"
(64 mm x 118 mm x 22.3 mm)

Weight (Battery Included)
4.8 oz (136 g)

User Environment
IP Rating: IP65
Drop Spec: 5' (1.5 m)
Operating: -4˚F to 122˚F (-20˚C to 50˚C)
Storage: -4˚F to 140˚F (-20˚C to 60˚C)
Humidity: 5% to 95% (non-condensing)

Compliance
RED, FCC, and RoHS Compliant

100 Village Blvd, Suite 300, Princeton, NJ 08540 USA
T: +1-609-256-4700
info@koamtac.com www.koamtac.com

© 2026 KOAMTAC, Inc.