Magnetic Universal Adaptor

for KDC1000/1100 SmartSled

Fast, Tool-Free SmartSled Attachment

The Magnetic Universal Adaptor (MUA) adds KDC SmartSled barcode scanning and RFID to compatible smartphones through fast, magnetic attachment, no Custom Case or permanent modification required. Quick to install and remove, it's ideal for shared devices and flexible use.

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MUA KDC1000 - 20260729

Magnetic Universal Adaptor

for KDC1000/1100 SmartSled

Tool-Free, Magnetic Installation

The Magnetic Universal Adaptor (MUA) attaches magnetically to compatible phone cases or directly to supported smartphones, eliminating the need to drill or screw into a case. This allows KDC1000/1100 SmartSled scanners to be quickly attached, removed, and reassigned as needed, enabling fast deployment and minimizing downtime across teams.

When it is time to upgrade to a new smartphone, the SmartSled and MUA can be easily transferred to the new device, allowing businesses to retain their existing investment while supporting a cost-effective, future-ready scanning strategy.

Optimized Form Factors for Any Configuration

Designed to seamlessly connect the smartphone to the KDC SmartSled, the MUA delivers a highly modular data-capture platform. Leveraging a modular design, KDC SmartSled scanners offer users the flexibility to attach a range of companions—including medium- and long-range UHF Readers, Extended Batteries, Pistol Grips, and mPOS companions—augmenting the functionality of the SmartSled as operational needs evolve.

The MUA is available in flat and angled models: the flat adaptor (FMUA) for standard handheld deployments, and the angled version (AMUA) for enhanced balance and ergonomics with companions like the 1.0W UHF Reader or Pistol Grip.

Fast Pairing and Fleet-Ready Charging

Setup is quick and intuitive with multiple pairing options. A BLE pairing barcode printed directly on the MUA enables instant Bluetooth® pairing between the SmartSled and smartphone. Simply scan the barcode, then snap the MUA to the phone for a secure magnetic connection. NFC tap-to-connect convenience is available on select smartphone models. The MUA is designed to work seamlessly with KOAMTAC SmartSled charging cradles, allowing devices to dock and charge without removing the adaptor or phone.

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KDC1000/1100 Specs

Barcode/RFID SmartSled®

Hardware Specifications

Physical Characteristics (SmartSled + FMUA)
Size (KDC1100): 3.19" × 4.67" × 1.12" (81 mm x 119 mm x 28 mm)
Weight (KDC1100): 4.85 oz (137.6 g)
Size (KDC1100): 3.19" × 4.67" × 1.30" (81 mm x 119 mm x 33 mm)
Weight (KDC1100): 4.96 oz (140.6 g)

Physical Characteristics (SmartSled + AMUA)
Size (KDC1100): 3.19" × 4.45" × 4.26" (81 mm x 113 mm x 108 mm)
Weight (KDC1100): 5.31 oz (150.6 g)
Size (KDC1100): 3.19" × 4.45" × 4.44" (81 mm x 113 mm x 113 mm)
Weight (KDC1100): 5.42 oz (153.6 g)

Electrical Characteristics
Charging: USB-C, Charging Cradle via Pogo Pins

Interfaces
USB (Android/iOS), Lightning (iOS)
Bluetooth® Low Energy 5.0: HID (Android/iOS/Windows),
SPP (Optional Secure Mode)
USB Power Delivery v3.0

User Environment
IP Rating: IP65
IP Rating w 1.0W UHF Reader: IP54
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)

Performance

Wedging & Synchronization
Transfer to an application
Keyboard wedge function
Add-on prefixes and suffixes
Barcode option selection

Application Generation
SDK for Android, Xamarin, Cordova, React Native, Flutter, and Web

Regulatory Conformance
R&TTE, RED, FCC, KC, J-MIC, VCCI, SRRC, RoHS Compliant
Laser Safety : IEC60825-1:2007 & IEC60825-1:2014, Class II

Scan Engine Specs (20mil Code39)
Scan Range (Standard): 1.9″ to 29.1″ (49 mm to 740 mm)
Scan Range (Professional): 1.38″ to 31.5″ (35 mm to 800 mm)
Scan Range (MR): 3.3″ to 59.0″ (85 mm to 1500 mm)
Scan Range (ER): 3.4″ to 112.1″ (88 mm to 2848 mm)

OS Support
Android, iOS, macOS, Windows

UHF Specs (when equipped with UHF companions)
Supported Standards: EPC Class1 Gen2, EPC Gen2 V2
Nominal Read Range: 20' (6 m) for 1.0W UHF Reader
5' (1.5 m) for 0.5W UHF Reader

Symbologies
Imager (1D): Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, EAN-8, EAN-13, GS1 Composite, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, PosiCode, GS1 Omni, GS1 Limited, GS1 Expanded, Straight 2 of 5 Industrial, Straight 2 of 5 IATA, TCL39, Telepen, Tri-Optic, UPC-A, UPC-E0, UPC-E1

Imager (2D): Aztec Code, Aztec Runes, Codablock F, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR Code, Han Xin Code

Postal Codes: POSTNET, Planet Code, British Post, Canadian Post, Netherlands (KIX) Post, Australian Post, Japanese Post, Chinese Post, Korean Post

OCR/MRZ : OCR-A, OCR-B, MICR E13-B, SEMI

Your SmartSled

Compatible Accessories
0.5W UHF Reader
1.0W UHF Reader
HF/NFC Reader
Extended Battery
Pistol Grip
1/2/5/10-Slot Charging Cradles
Car & Forklift Charging Cradles

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Flat Magnetic Universal Adaptor + SmartSled Bundles

Please use this Model Guide
to help determine your scanning needs.

Part Number	Product Name	Description
504800	KDC1000-FMUA	KDC1000 No Barcode SmartSled with FMUA
504810	KDC1000-ST-FMUA	KDC1000 ST Barcode SmartSled with FMUA
519000	KDC1100-ST-FMUA	KDC1100 ST Barcode SmartSled with FMUA
519100	KDC1100-PRO-FMUA	KDC1100 PRO Barcode SmartSled with FMUA
519020	KDC1100-MR-FMUA	KDC1100 MR Barcode SmartSled with FMUA
519030	KDC1100-ER-FMUA	KDC1100 ER Barcode SmartSled with FMUA
519100	KDC1100-XR-FMUA	KDC1100 XR Barcode SmartSled with FMUA

Angled Magnetic Universal Adaptor + SmartSled Bundles

Part Number	Product Name	Description
504830	KDC1000-AMUA	KDC1000 No Barcode SmartSled with AMUA
504840	KDC1000-ST-AMUA	KDC1000 ST Barcode SmartSled with AMUA
519050	KDC1100-ST-AMUA	KDC1100 ST Barcode SmartSled with AMUA
519060	KDC1100-PRO-AMUA	KDC1100 PRO Barcode SmartSled with AMUA
519070	KDC1100-MR-AMUA	KDC1100 MR Barcode SmartSled with AMUA
519080	KDC1100-ER-AMUA	KDC1100 ER Barcode SmartSled with AMUA
519110	KDC1100-XR-AMUA	KDC1100 XR Barcode SmartSled with AMUA

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