KOAMTAC 344000

KDC480 SmartSled (No Barcode Scanner) User Manual

Model: 344000 | Brand: KOAMTAC

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1. INTRODUCTION

The KOAMTAC KDC480 SmartSled is a versatile Bluetooth Low Energy device designed for seamless integration with KOAMTAC KDC SmartSled Companions. This device is engineered for durability, featuring an IP65 rating and a 5-foot drop specification, making it suitable for demanding environments. Its innovative design allows users to periodically upgrade their smartphone while retaining the core KDC480 system. The KDC480 supports simultaneous charging of its battery and a connected phone through integrated charging cases, utilizing a USB Type-C cable or a charging cradle. It includes free KTSync keyboard wedging software and a free SDK for Android, Blackberry, iOS (iPhone, iPod touch, iPad), and Windows platforms.

Figure 1: The KOAMTAC KDC480 SmartSled device. This image shows the compact, rectangular device with a dark grey and black finish, featuring several small gold-colored contact points and buttons along its sides.

2. SETUP GUIDE

2.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items are present and undamaged. If

any items are missing or damaged, contact KOAMTAC support immediately.

2.2 Charging the Device

Before first use, fully charge the KDC480. Connect the device to a power source using a USB Type-C cable or place it in a compatible charging cradle. The integrated charging cases allow simultaneous charging of the KDC480 battery and a connected smartphone.

2.3 Integrating with SmartSled Case (Sold Separately)

The KDC480 is designed to integrate with a SmartSled Case, which is sold separately. Follow the instructions provided with your SmartSled Case for proper attachment and secure fitment of your smartphone with the KDC480.

2.4 Connecting to Host Devices

The KDC480 supports Bluetooth and USB cable connectivity.

- **Bluetooth Connection:** Power on the KDC480. Enable Bluetooth on your compatible device (Desktop, Laptop, Smartphone). Search for available Bluetooth devices and select the KDC480. Pair the devices following the on-screen prompts. The KDC480 supports Bluetooth Low Energy 5.0 with HID (Human Interface Device) for Android, iOS, and Windows, and SPP (Serial Port Profile) with optional secure mode.
- **USB Cable Connection:** Connect the KDC480 to your host device using a compatible USB cable. The device will be recognized as a peripheral.

2.5 Software Installation

For full functionality, install the necessary software:

- **KTSync Keyboard Wedging Software:** This free software allows the KDC480 to input data directly into applications as if it were typed from a keyboard. Download and install KTSync from the KOAMTAC website for your specific operating system.
- **Software Development Kit (SDK):** For custom application development, a free SDK is available for Android, Blackberry, iOS, and Windows. Refer to the KOAMTAC developer resources for documentation and downloads.

3. OPERATING INSTRUCTIONS

3.1 Powering On and Off

- **Power On:** Press and hold the power button until the device powers on.
- **Power Off:** Press and hold the power button until the device powers off.

3.2 Bluetooth Modes

The KDC480 operates in different Bluetooth modes to suit various applications:

- **HID (Human Interface Device):** Ideal for simple data input, acting like a keyboard. Compatible with Android, iOS, and Windows.
- **SPP (Serial Port Profile):** Provides a virtual serial port for more complex data communication, often used with custom applications developed using the SDK. An optional secure mode is available for enhanced data security.

3.3 Data Storage

The KDC480 features 8MB of internal flash memory for storing data. This allows for offline data collection when not connected to a host device. Data can be transferred to a host device once a connection is established.

3.4 Using with KDC480 Companions

The KDC480 is compatible with various KDC480 Companions, including HF (High Frequency) and UHF (Ultra High Frequency) modules. These companions extend the functionality of the SmartSled. Refer to the specific companion's manual for detailed operating instructions when integrated with the KDC480.

4. MAINTENANCE

4.1 Cleaning the Device

To clean the KDC480, use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaning solution. Do not use harsh chemicals, solvents, or abrasive materials, as these can damage the device's finish and internal components. Ensure the device is powered off and disconnected from any power source before cleaning.

4.2 Battery Care

To maximize battery life and performance:

- Avoid exposing the device to extreme temperatures.
- Charge the device regularly, but avoid leaving it fully discharged for extended periods.
- Use only KOAMTAC-approved charging accessories.

4.3 Environmental Considerations

The KDC480 is designed with an IP65 rating for dust and water resistance and a 5-foot drop specification. While robust, it is not indestructible. Avoid intentional exposure to excessive moisture, extreme temperatures, or severe impacts to ensure longevity and proper function.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your KDC480 SmartSled.

- **Device Not Powering On:**

    - Ensure the battery is charged. Connect the device to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
    - Verify the power button is being pressed and held correctly.

- **Bluetooth Connectivity Issues:**

    - Ensure Bluetooth is enabled on both the KDC480 and the host device.
    - Check that the KDC480 is in pairing mode or discoverable.
    - Remove any previous pairings of the KDC480 from the host device's Bluetooth settings and attempt to pair again.
    - Ensure the devices are within the effective Bluetooth range.
    - Restart both the KDC480 and the host device.

- **Data Not Transmitting:**

- For HID mode, ensure KTSync software is running and configured correctly on your host device.
- For SPP mode, verify your custom application is correctly configured to receive data from the KDC480.
- Check the connection status (Bluetooth or USB) to ensure it is active.

- **Charging Problems:**

  - Verify the USB Type-C cable is securely connected to both the KDC480 and the power adapter/source.
  - Try a different USB Type-C cable or power adapter.
  - If using a charging cradle, ensure the KDC480 is properly seated and the cradle is powered.

If you continue to experience issues, please refer to the KOAMTAC support website or contact their technical support team.

6. SPECIFICATIONS
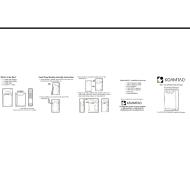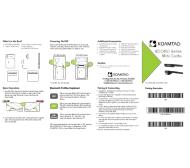
Model Number	344000
Brand	KOAMTAC
ASIN	B09XYH8SD4
Description	SmartSled (No Barcode Scanner)
Connectivity Technology	Bluetooth (BLE 5.0), USB Cable
Bluetooth Modes	HID (Android/iOS/Windows), SPP (Optional Secure Mode)
Internal Memory	8MB Flash Memory
Compatible Devices	Desktop, Laptop, Smartphone
Power Source	Battery Powered, Corded Electric
Durability	IP65-rated, 5' Drop Spec
Package Dimensions	6 x 4 x 2 inches
Manufacturer	KOAMTAC
Date First Available	April 14, 2022

7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official KOAMTAC website or the warranty card included with your product. KOAMTAC provides technical support for the KDC480 SmartSled. For assistance with setup, operation, troubleshooting, or any other inquiries, please visit the KOAMTAC support portal or contact their customer service team directly. Ensure you have your product model number (344000) and purchase details available when seeking support.
KOAMTAC Website: www.koamtac.com

Related Documents - 344000

	[KOAMTAC KDC480/KDC485 Series Mini Guide: Barcode Scanners](#) Concise guide to KOAMTAC KDC480 and KDC485 series barcode scanners, covering setup, operation, Bluetooth profiles, KTSync, KOAMTACON, specifications, and companion devices.
	[KOAMTAC KDC Reference Manual Rev 4.3: Features, Operation, and Connectivity](#) This comprehensive reference manual from KOAMTAC details the features, installation, operation, and connectivity options for the KDC series of barcode scanners and data collectors. It covers Bluetooth, Wi-Fi, NFC, UHF, KTSync software, and various KDC models, providing essential guidance for users.
	[KOAMTAC KDC480/KDC485 Series Mini Guide: Barcode Scanner Operation and Specs](#) Comprehensive guide to the KOAMTAC KDC480 and KDC485 series barcode scanners, covering setup, operation, Bluetooth profiles, accessories, and technical specifications.
	[KOAMTAC KDC SmartSled Hand Strap Assembly Manual](#) Step-by-step instructions for assembling the KOAMTAC KDC SmartSled Hand Strap, including what's in the box, assembly steps, and available accessories for KDC470/475/480/485 scanners.
	[KOAMTAC KDC480/KDC485 Series Mini Guide: Setup, Operation, and Specifications](#) Concise guide for KOAMTAC KDC480 and KDC485 series barcode scanners. Covers unboxing, powering on/off, basic operation, Bluetooth pairing (HID, SPP), keyboard wedge, KTSync, KOAMTACON, specifications, and FCC compliance.
	[KOAMTAC KDC185 Quick Guide: Bluetooth Barcode Scanner Setup and Features](#) A comprehensive quick guide for the KOAMTAC KDC185 Bluetooth barcode scanner, covering setup, pairing, usage, specifications, and the social distancing feature.

Documents - KOAMTAC – 344000

[pdf] Datasheet Borchure

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KDC480 KDC485 Barcode/RFID/mPOS SmartSled Our Most Modular Product Yet Whether you need to read barcodes or RFID tags this is the KDC for you. The KDC480 and KDC485 are rugged devices with an IP65 rating and are built to last. No matter what type of data you need to collect or how you need to col...

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