KOAMTAC

SLED-MSRIC
Quick Guide
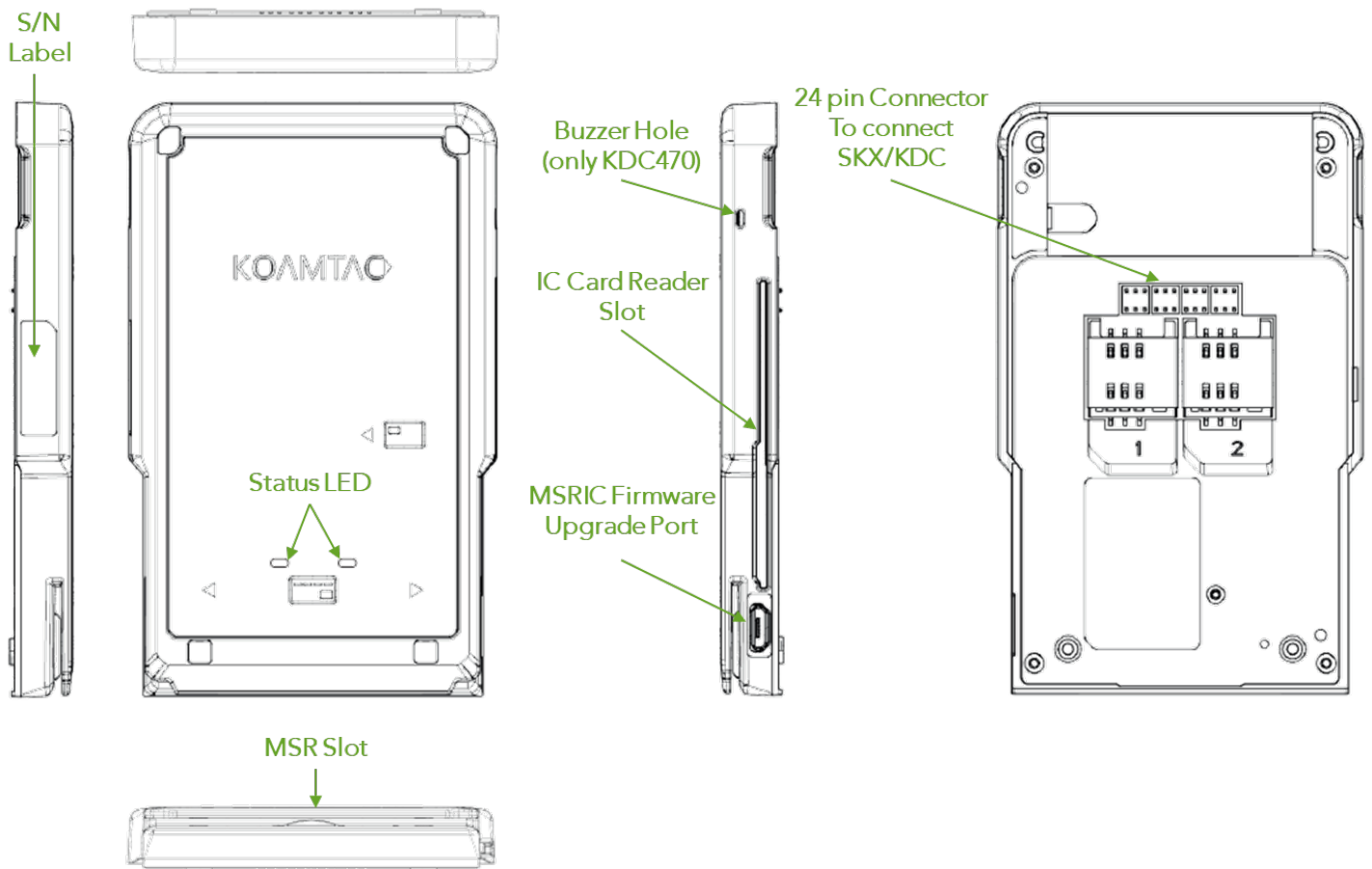
Contents

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

1. Product Introduction

The SLED-MSRIC is a companion module for the KDC470 and the SKXPro/5. It provides features like a magnetic card reader (MSR) and IC card reader (ICCR).

1.1 SLED-MSRIC Diagram

S/N Label

Buzzer Hole (only KDC470)

24 pin Connector To connect SKX/KDC

IC Card Reader Slot

Status LED

MSRIC Firmware Upgrade Port

MSR Slot

1.2 How to turn on and off

The SLED-MSRIC does not have its own power system. The power is supplied by the KDC470 or the SKXPro/5 (via the XCover Pro/5 Phone).

1. To power on or off a KDC470, simultaneously press the SCAN and DOWN buttons for 3 seconds. The KDC will beep when turned ON or OFF. The KDC will sound a long beep when it is ready to use.

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

2. Regarding the SKXPro/5, you must first power on the phone. To power on the XCover Pro/5, press and hold the SIDE key for a few seconds. To power off the XCover Pro/5, press and hold the VOLUME DOWN and SIDE key simultaneously or alternatively, open the notification panel and tap the power icon.

To locate the SCAN button, DOWN button, or other keys on the phone, reference the product diagram found in the Quick Guide for the KDC470 or SKXPro/5.

2. Assembly Manual

The SLED-MSRIC can be assembled and attached to KDC470 or SKXPro/5. For more detailed information, please refer to the SLED-MSRIC assembly manual. (The images shown below display the SLED-mPOS companion for demonstration purposes).

2.1 How to Assemble into KDC470

What's in the Box?

One (1) of the following devices:
- KDC470 SLED-mPOS Companion
- KDC470 SLED-MSRIC Companion

And:
- 4 screw caps
- 4 screws + 1 extra

KDC470 SLED-mPOS Companion
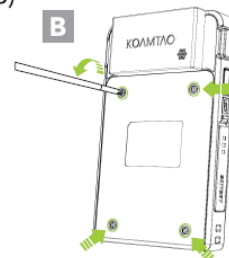
KDC470 SLED-MSRIC Companion

*KDC470 sold separately. Tweezers and PH0 screw driver (not included) will be necessary to complete assembly.
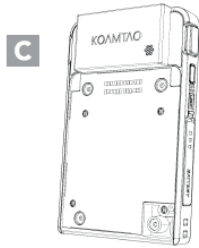
Assembly Instructions

1. Using tweezers, carefully remove all four (4) screw caps from the back of the KDC470. (A)

2. Remove all four (4) screws from the back of the KDC470. (B)

See Reference Manual for more detailed information.
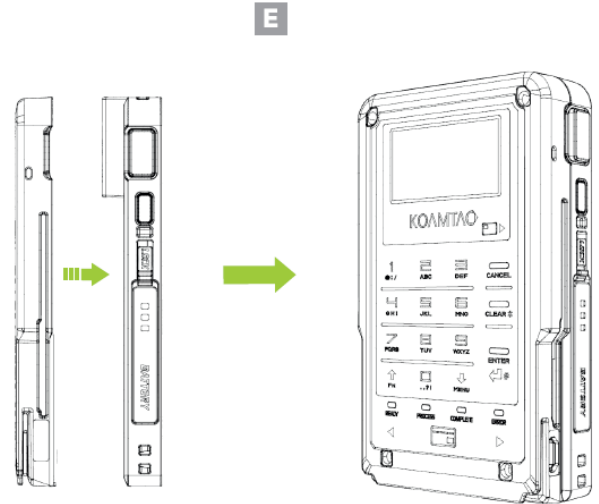Visit store.koamtac.com to purchase additional KDCs and accessories.

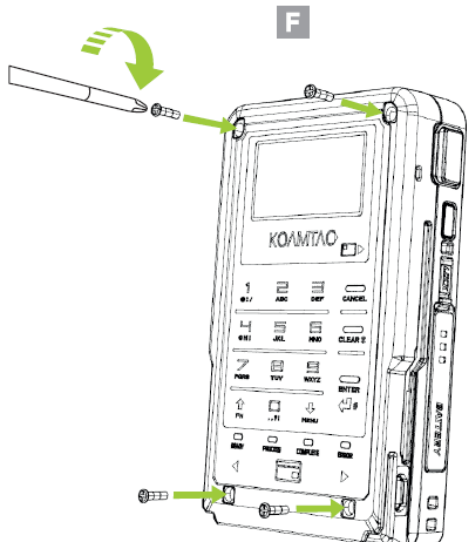3. Remove the cover plate from the back of the KDC470. (C)

4. Using tweezers, carefully remove the top two (2) screw caps from the back of the KDC470. (D)
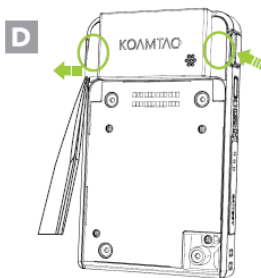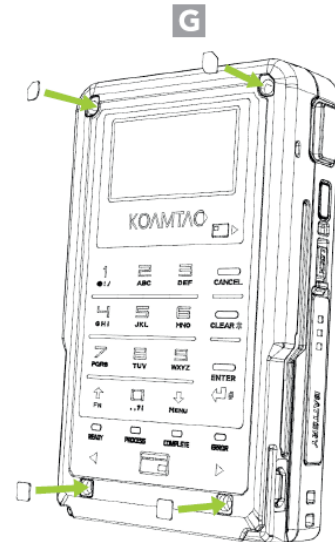
5. Align the screw holes of the SLED-mPOS or SLED-MSRIC Companion with the screw holes of the KDC470. (E)

6. Use the four (4) included screws to attach the SLED-mPOS or SLED-MSRIC to the KDC470. (F)

7. Attach the four (4) included screw caps to the KDC470 SLED-mPOS or SLED-MSRIC Companion. (G)

20210618

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

QG_SLED-MSRIC_20210728 p4

2.2 How to Assemble into SKXPro/5

What's in the Box?

One (1) of the following devices:

- SKXPro/SKX5 SLED-mPOS Companion
- SKXPro/SKX5 SLED-MSRIC Companion

And:

- 1 contact PCB
- 4 screw caps
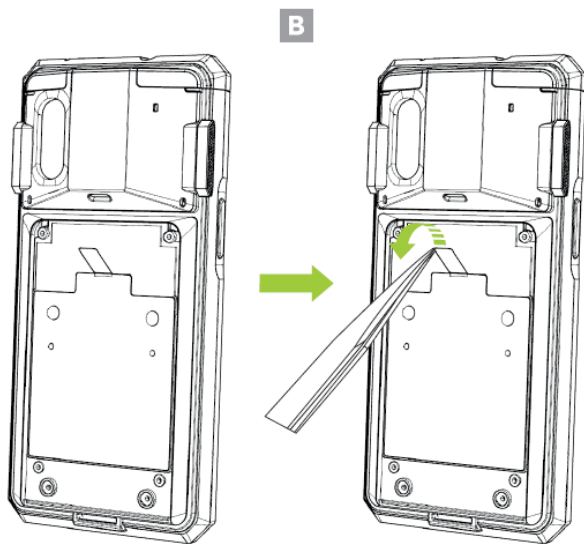- 4 screws + 1 extra

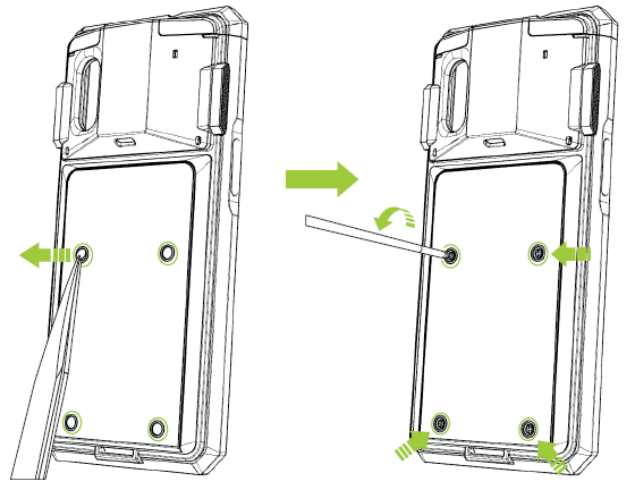SKXPro/SKX5
SLED-mPOS

SKXPro/SKX5
SLED-MSRIC

*SKXPro/SKX5 sold separately. Tweezers and PH0 screw driver
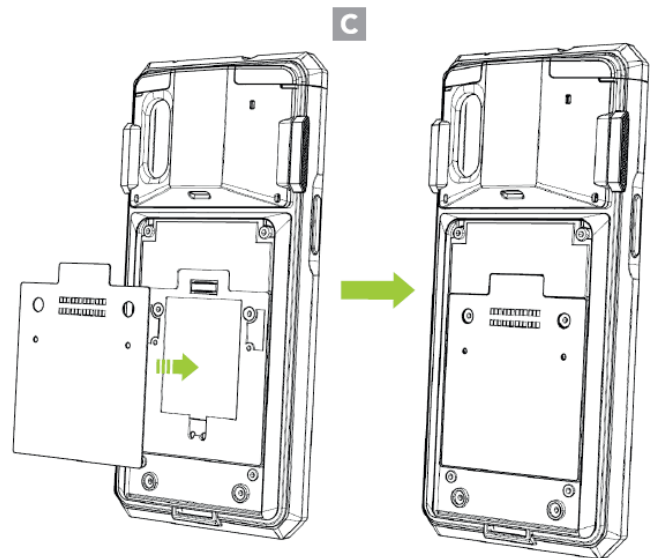(not included) will be necessary to complete assembly.

2. Separate the companion cover from the SKXPro/SKX5
by removing the terminal protective tape with tweezers.
(B)

1. Using tweezers, carefully remove all four (4) screw caps
from the back of the SKXPro/SKX5. Then, remove all (4)
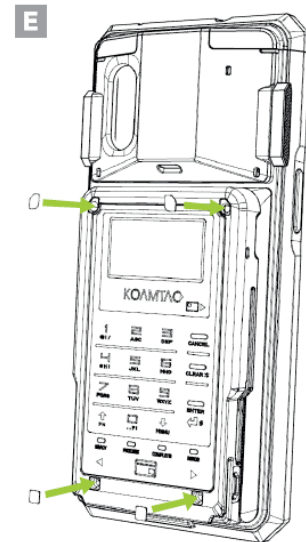screws from the back of the SKXPro/SKX5. (A)

3. Attach the contact PCB to the SKXPro/SKX5. (C)

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

KOAMTAC

4. Align the screw holes of the SLED-mPOS or SLED-MSRIC Companion with the screw holes of the SKXPro/SKX5. Use the four (4) included screws to attach the SLED-mPOS or SLED-MSRIC Companion to the SKXPro/SKX5. (D)
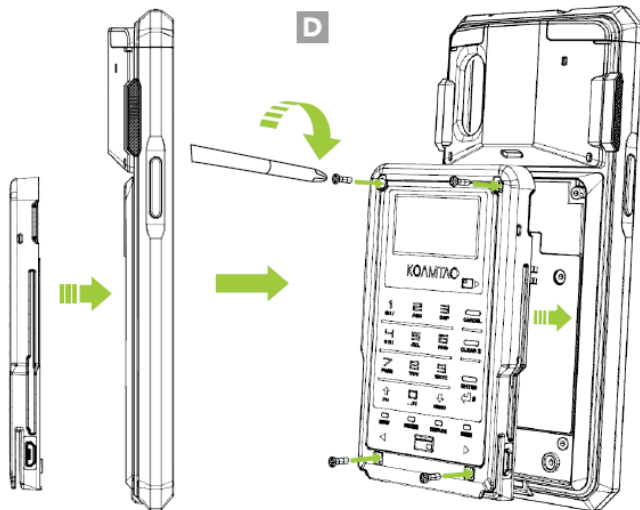
5. Attach the four (4) included screw caps to the SKXPro /SKX5 SLED-mPOS or SLED-MSRIC Companion. (E)

20210616

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

QG_SLED-MSRIC_20210728 p6

3. Operation

3.1 Micro USB Port

The SLED-MSRIC has its own USB port on the side.

For KDC470 (KDCSLED-MSRIC), the port is used to upgrade the MSRIC firmware.

For SKXPro/5 (SKXSLED-MSRKC), the port is used to upgrade the MSRIC firmware and used for the data communication with SKXPro/5 and with XCover Pro/5 phone.

3.2 LED Indicator

The SLED-MSRIC has one set of LEDs (two LEDs) on the front.

If the IC Card is inserted and read successfully, the LED turns green. If the reading is failed, it turns red.

If the magnetic card is swiped and read successfully, the LED stays lights green for 0.3 seconds and if not, it says in red for 0.3 seconds.

For KDC470 (KDCSLED-MSRIC), the port is used to upgrade the MSRIC firmware.

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

4. Useful Special Barcodes

There are several useful special barcodes to configure the SLED-MSRIC.

4.1 MSR (Magnetic Stripe Reader)

Enable MSR Power	Disable MSR Power
⟼MKDCMB001.	⟼MKDCMB010.
Enable Use Track1	Disable Use Track1
⟼MKDCM3001.	⟼MKDCM4001.
Enable Use Track2	Disable Use Track2
⟼MKDCM3002.	⟼MKDCM4002.
Enable Use Track3	Disable Use Track3
⟼MKDCM3004.	⟼MKDCM4004.
MSR Card Type = ISO	MSR Card Type = Other 1
⟼MKDCMA000.	⟼MKDCMA001.

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

QG_SLED-MSRIC_20210728 p8

MSR Card Type = AAMVA	MSR Card Type = JIS 2
┬MKDCMA002.	┬MKDCMA003.

4.2 ICCR (IC Card Reader)

Enable ICCR Power	Disable ICCR Power
┬MKDCI0001.	┬MKDCI0010.
IFD Number	**Config Number**
┬MKDCI1000.	┬MKDCI1001.

4.3 MSRIC Firmware Upgrade Port (Only for SKX-SLED-MSRIC)

Enable SLED USB MODE	Disable SLED USB MODE
(To upgrade MSRIC firmware)	(To access SKX/Phone))
«SYN»MKDC5z001.	«SYN»MKDC5z000.

See Reference Manual for more detailed information.
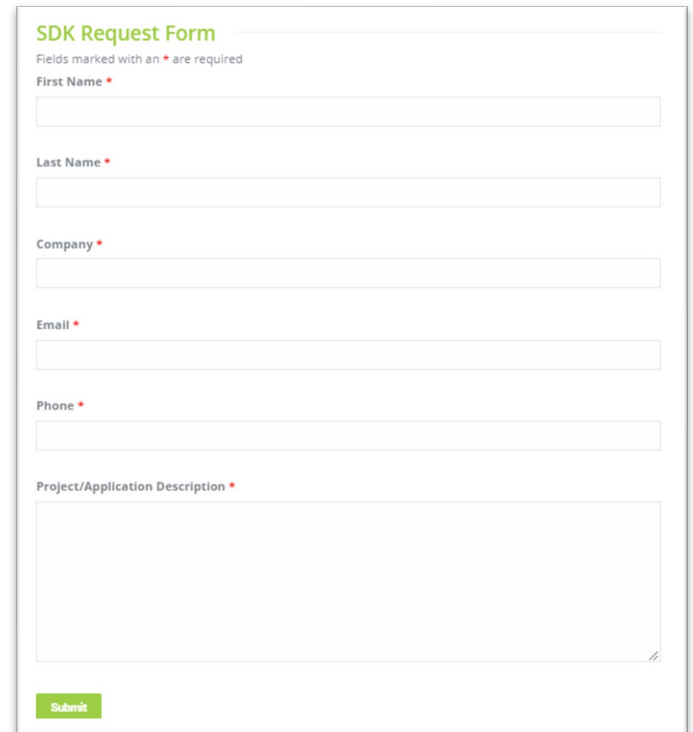Visit store.koamtac.com to purchase additional KDCs and accessories.

5. Usage

5.1   Using other Developed Applications with free SDK – Android/iOS

A Software Development Kit (SDK) for Android and iOS is available to all KOAMTAC customers to ensure smooth development of applications that work seamlessly with a KDC scanner. It's easy to request the SDK from the KOAMTAC website:

a) On any web browser, open www.koamtac.com
b) Navigate to SUPPORT > Downloads > SDK
c) Complete the form and submit it.

After submission, a KOAMTAC representative will reach out regarding next steps for completing the SDK Agreement.

The SDK package will have libraries, documents, a sample application, and its source code.

SDK Request Form

Fields marked with an * are required

First Name *

Last Name *

Company *

Email *

Phone *

Project/Application Description *

Submit

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.

QG_SLED-MSRIC_20210728 p10

6. Product Specifications

Physical	Design	KDC470/SKXPro/SKX5 Sled Companion
	Size	2.56" x 4.13" x 0.39" 65 mm x 105 mm x 9.8 mm
	Weight	2.33 oz (66 g)
Functionality	Supporting OS	Android / iOS
	Keys	No
	Buzzer	No
	LED Indicator	2 LED's
	USB Port	Micro USB Port (KDC470: Only for MSRIC Firmware Upgrade Port SKXPro/5: Selective for either MSRIC Firmware Upgrade Port or SKXPro/5 Sled/Phone Access Port)
Memory	RAM	128KB
	ROM	Internal Flash ROM 1MB External Flash ROM 4MB for Encrypted Keys
Environment	Drop Spec	4 ft (1.2 m)
	IP Rating	N/A
	Operating Temp.	-4 ˚F to 122 ˚F (-20 ˚C to 50 ˚C)
	Storage Temp.	-4 ˚F to 140 ˚F (-20 ˚C to 60 ˚C)
	Humidity Spec	5% ~ 95% (non-condensing)
Regulatory Conformance	Laser Safety	N/A
	LED Safety	N/A
	Regulatory	CE/FCC/KC/RoHS
	Payment	EMV Level 1 Contact
Standard Supported	MSR Standard & Type	ISO 7810, 7811, 7813, AAMVA, Custom Data Format
	MSR Read Card Format / Handling Method	Track1, Track2, Track3 / Manual swipe, Bidirectional
	IC Card Reader Standard	ISO7816 (T=0, T=1)
	IC Card Reader Card Type	ISO7816 Class A, B, C (5V, 3V, 1.8V) Smart Cards
	IC Card Reader Compliance	EMV Level 1 Contact
	Data Encryption Method	AES128/192/256, DES/TDS, RSA (2048)

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional KDCs and accessories.