

ΚΟΑΜΤΑΣ



116 Village Blvd, Suite 305, Princeton, NJ 08540 USA
T: + 1-609-256-4700 F: +1-609-228-4373
info@koamtac.com www.koamtac.com

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1. Product Introduction

The SKXPro is a 2D Imager Barcode Data Scanning Sled for the Samsung Galaxy XCover Pro. It is connected to the XCover Pro via the USB Type-C port at the bottom of the SKXPro. Data between the SKXPro and XCover Pro is transferred through this physical connection, not by Bluetooth.

1.1 SKXPro Diagram

- ① Left & Right SCAN Keys (for SKXPro)
- ② VOLUME UP Key (access to XCover Pro Volume Key)
- ③ VOLUME DOWN Key (access to XCover Pro Volume Key)
- ④ SIDE Key (of XCover Pro)
- ⑤ XCover Key (access to XCover Pro XCover Key)
- ⑥ Top Key (access to XCover Pro Top Key)
- ⑦ Hand Strap Holes (for SKXPro)
- ⑧ USB Port to access XCover Pro or SKXPro from PC
- ⑨ Barcode Scan Window (for SKXPro)
- ⑩ Pogo Pins for Charging XCover Pro and SKXPro
- ⑪ Screw Holes (for SKXPro)



1.2 How to Turn On and Off

Refer to the figure in [section 1.1](#) to locate the buttons and keys.

The SKXPro does not have its own internal battery but rather draws power from the XCover Pro's battery. The SKXPro works only when the XCover Pro is mounted into SKXPro Scanning Sled. If you need to access the SKXPro or the XCover Pro, you can access them by using the USB port from the back of the SKXPro.

To turn on the XCover Pro, press and hold the SIDE key for a few seconds.

To turn off the XCover Pro, press and hold the VOLUME DOWN and SIDE keys simultaneously. Alternatively, open the notification panel and tap power icon.

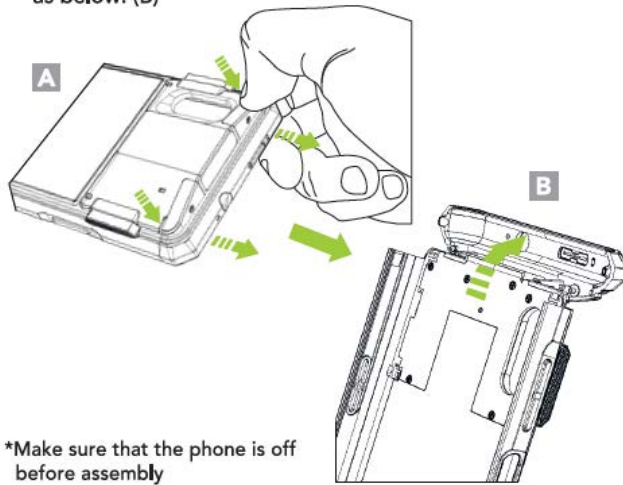
2. Assembly Manual

2.1 How to Assemble (Mount) the XCover Pro into the SKXPro

Make sure that the XCover Pro is off before assembly. (Please note, a PH0 screwdriver is necessary to complete assembly/disassembly.)

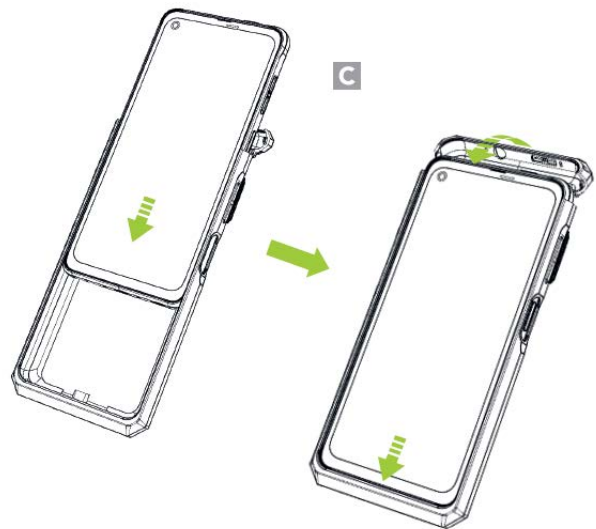
Assembly Instructions

1. Place your finger in the grooves on both sides of the SKXPro rear top cover and pull the top cover away from the SKXPro. (A) Then, flip the top cover back as shown as below. (B)

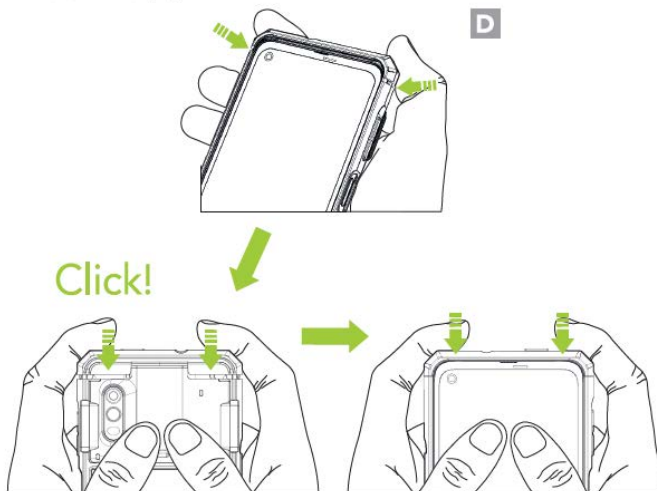


*Make sure that the phone is off before assembly

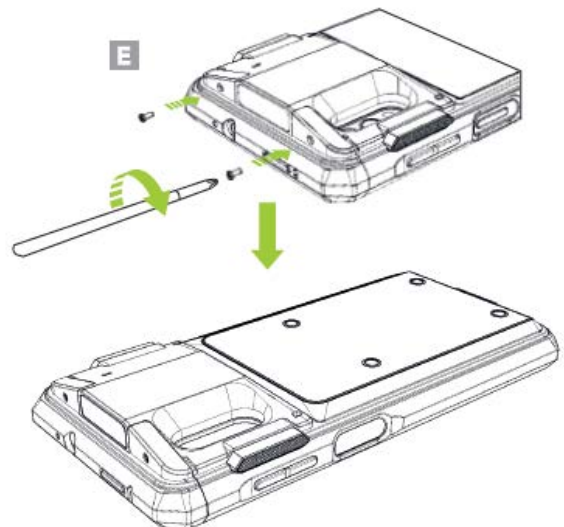
2. Slide the XCover Pro into the SKXPro and flip the top cover forward as shown. (C)



3. Align the top cover with the body of the SKXPro and close it by pressing both sides from the back until you hear a click. Press both sides of the top cover once again from the front. (D)



4. Using the provided screws, tighten the top cover via the screw holes on both sides of the scanner. (E)



2.2 How to Remove the XCover Pro from the SKXPro

Make sure that the phone is off before removal. (Please note, a PH0 screwdriver is necessary to complete assembly/disassembly)

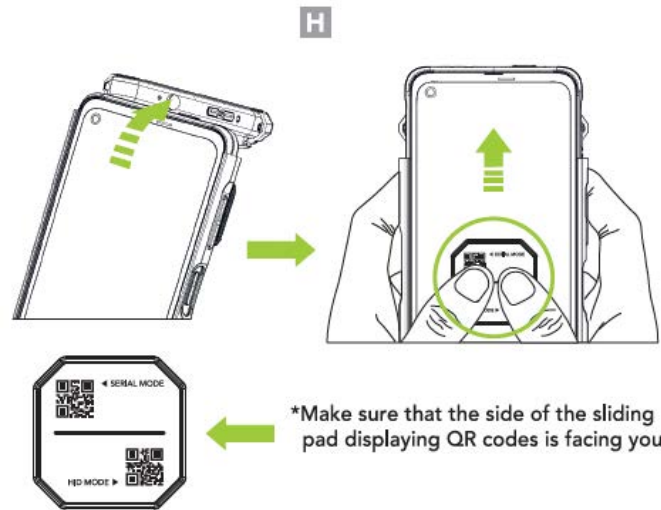
Removing the XCover Pro

1. Remove the screws on both sides of the scanner. (F) Next, remove the top cover by pressing the grooves on both sides of the SKXPro with your finger and pull the top cover away from the SKXPro. (G)



*Make sure that the phone is off before assembly

2. Flip the top cover back. After placing the sliding pad on the XCover Pro screen as shown in the figure, remove the XCover Pro by pushing up the sliding pad with both fingers. (H)

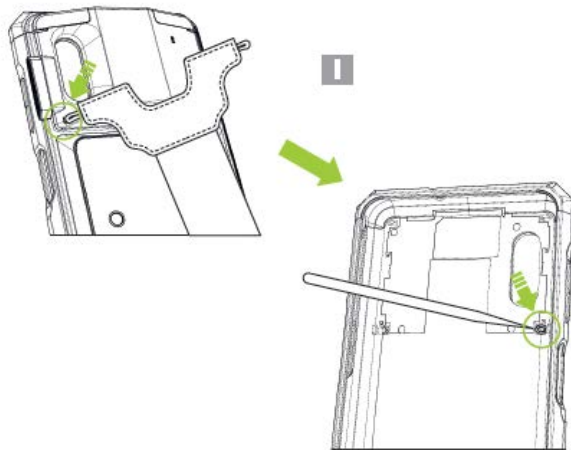


*Make sure that the side of the sliding pad displaying QR codes is facing you.

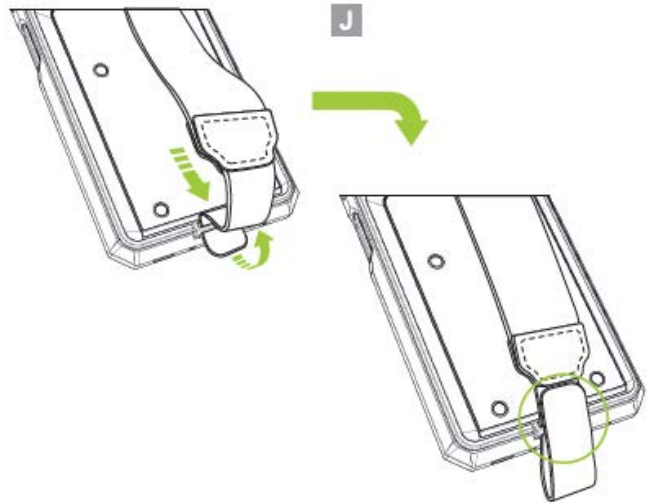
2.3 Assembling the Hand Strap and Protective Boot for SKXPro

Hand Strap Assembly Instructions

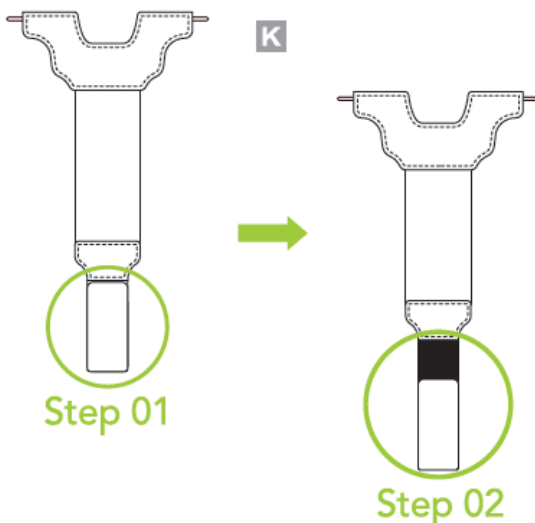
1. Slide the hand strap's left elastic band through the left strap hole of the SKXPro. Use pin or sharp tool to fasten the left elastic band to the plastic tab inside the SKXPro. (I) Repeat the process with the hand strap's right elastic band.



2. Loop the hand strap band through the slot on the bottom of SKXPro and attach the hook and loop band to itself. (J)



3. By adjusting the lower hook and loop band of the hand strap the length of the hand strap can be adjusted in two steps to suit the user. (K)



Protective Boot Assembly Instructions

- Push the lower part of SKXPro into the lower part of the Protective Boot as shown below, and then insert the upper part of the SKXPro into the upper part of the Protective Boot. (L)



3. Connectivity

3.1 Connection Between the XCover Pro and the SKXPro

Once the XCover Pro is assembled with the SKXPro, the two will be connected via USB and the connectivity will be USB HID connectivity by default. This allows the SKXPro to function as a keyboard. The SKXPro is also able to utilize USB Serial connectivity.

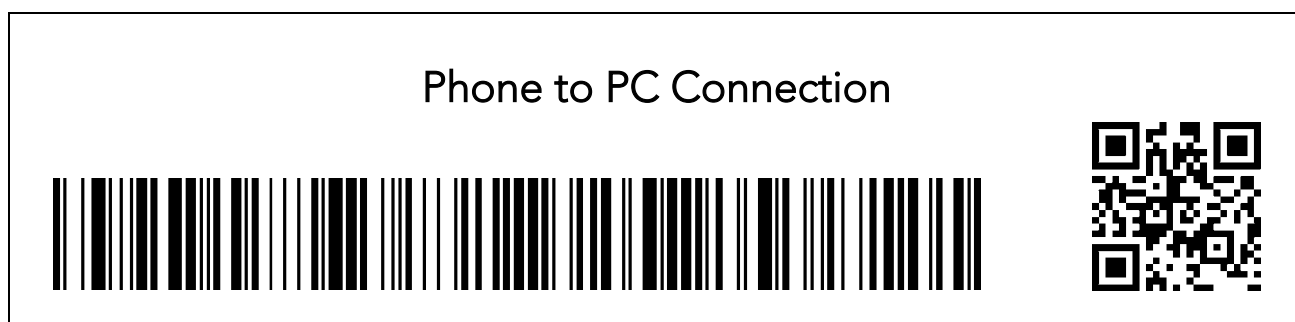
- a. **USB HID Connectivity:** Allows one-way USB communication. The SKXPro only transmits data to the host device, the XCover Pro.
- b. **USB Serial Connectivity:** Allows two-way USB communication. The SKXPro transmits data to the XCover Pro application and the XCover Pro application can transmit data/control back to the SKXPro.

Note: USB HID inputs data directly into an application, while USB Serial requires KTSync SKXPro or a custom application developed using the KOAMTAC SDK to input data into an application. To gain access to the SDK, please complete the form here:

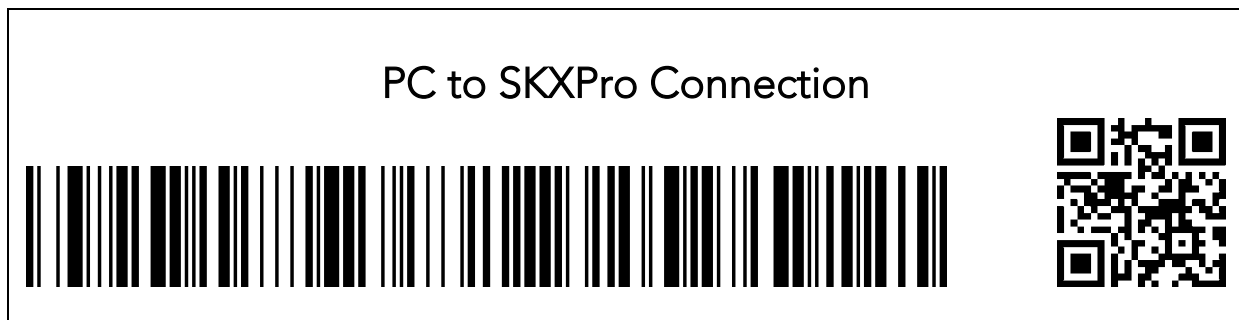
<https://www.koamtac.com/sdk/>

3.2 Connection Between XCover Pro and PC

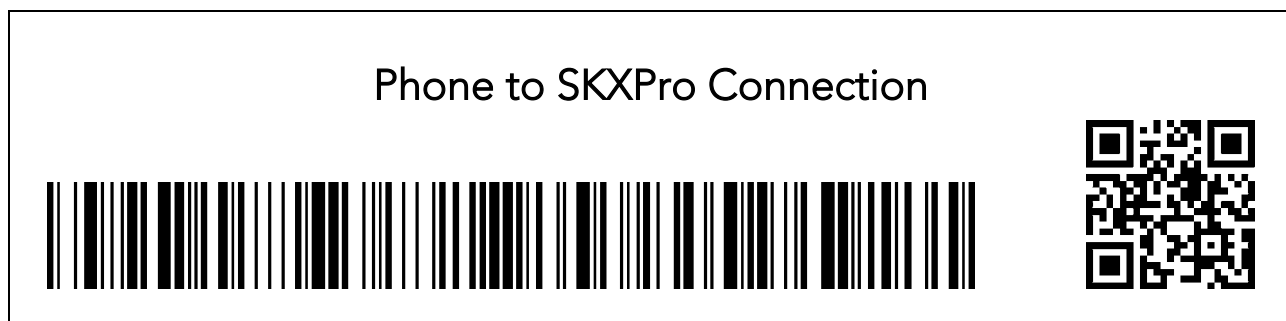
To access the XCover Pro while installed in the SKXPro sled, you can use the USB port located on the back of SKXPro. (Item ⑧ from the diagram in section 1.1) Please connect the SKXPro sled to the PC with a USB cable, then scan the barcode shown below to bypass the SKXPro. Once you disconnect the USB cable from the PC, the XCover Pro will automatically reconnect to the SKXPro.



To connect a PC to the SKXPro (for firmware upgrades or SKXPro configuration), please connect the SKXPro sled to the PC with a USB cable, then scan the barcode below. Once you disconnect the USB cable from the PC, the SKXPro will automatically reconnect to the XCover Pro.



To reset the default connection (XCover Pro to SKXPro), use this barcode.



4. Usage

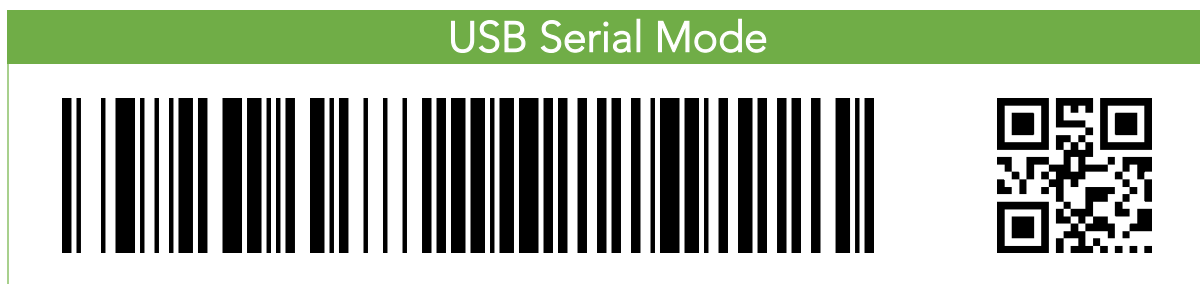
4.1 Using Keyboard Wedge (HID Keyboard): USB HID Mode (DEFAULT)

This option is only available when SKXPro is set to USB HID connectivity. USB HID mode is the default mode of the SKXPro. Once the XCover Pro phone is assembled into the SKXPro, the SKXPro automatically works as a keyboard without any further setup. If you open any application with a text field and tap on the text field, then proceed to scan any barcode, you will notice that the barcode data will be populated into that text field. If you need to switch back into USB HID Mode from USB Serial Mode, scan this barcode:

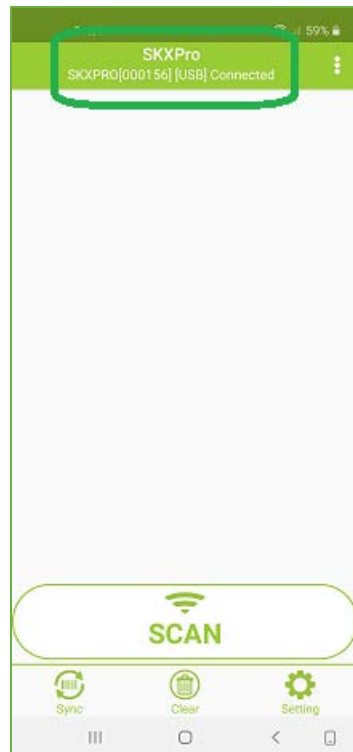


4.2 Using KTSync SKXPro: USB Serial Mode

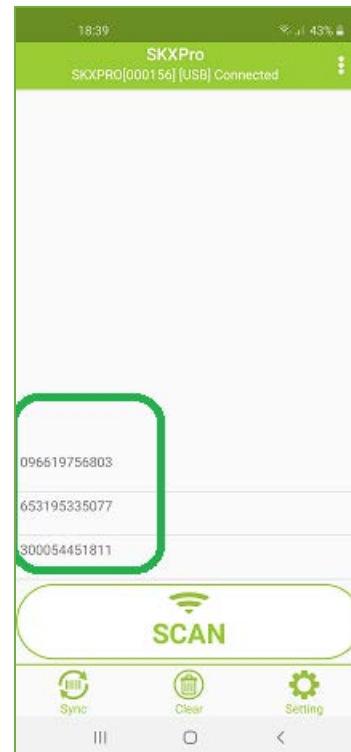
The KTSync SKXPro app is a program which communicates with the SKXPro via USB Serial connection. It enables users to read and store data, supports keyboard wedging, and also contains configuration options for the SKXPro. Download the KTSync SKXPro app from the Google Play Store. You can use KTSync SKXPro app to utilize your SKXPro alone or with a native application. This is only available when using a USB connection with USB Serial Mode. To change to USB Serial Mode, scan this barcode:



- Download and install KTSync SKXPro app from the [Google Play Store](#).
- Open the KTSync SKXPro app then it will automatically connect to the SKXPro. The SKXPro will display "Connected" next to the name of your SKXPro at the top of the application. (Fig. 1)
- To test your connection, scan any barcode. If the connection is successful, the barcode data will display on the screen. (Fig. 2)



< Fig. 1 >



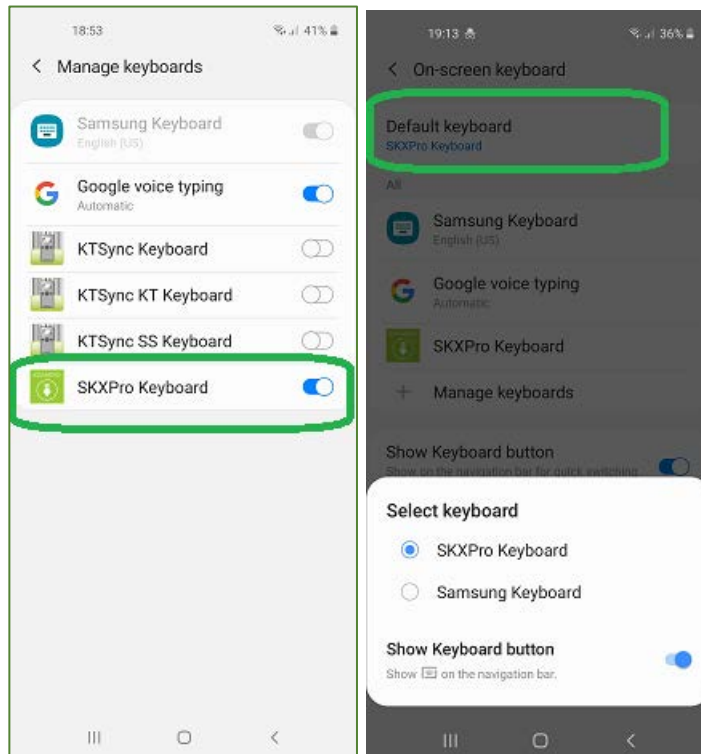
< Fig. 2 >

4.3 Using SKXPro Keyboard – Android

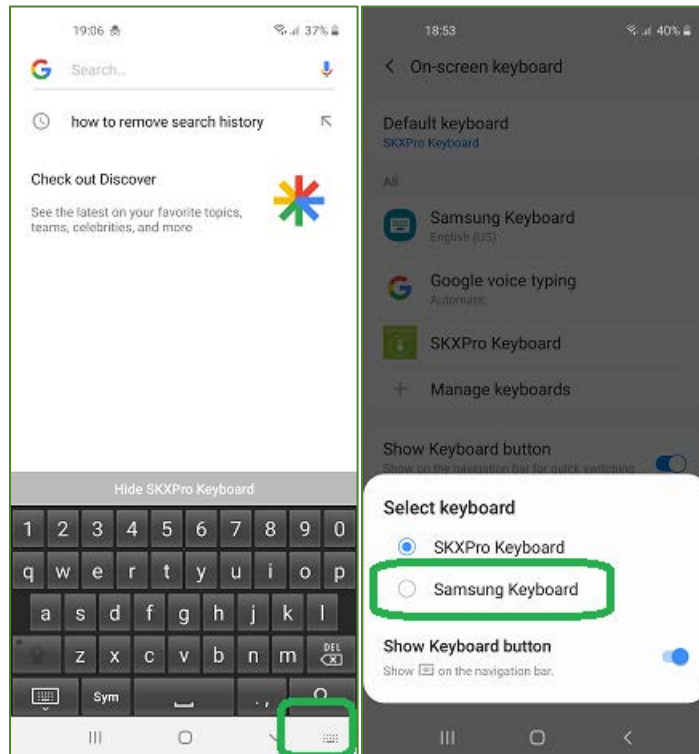
You can set up the SKXPro as a keyboard while SKXPro is connected in USB Serial Mode.

- While the KTSync SKXPro app is running in the background, navigate to Settings → General management → Language and input → On-screen keyboard → Manage keyboards.
- Tap on "SKXPro Keyboard" to enable it.
- Change "SKXPro Keyboard" to the default keyboard. (Fig. 5)

To switch back to the previous keyboard, simply change the default keyboard again. Or, when a text field is selected, tap on the keyboard button from the keyboard and select the default keyboard. (Fig. 6)



< Fig. 5 >



< Fig. 6 >

Note: The SKXPro must be connected to KTSync SKXPro app and the SKXPro keyboard must be selected for this to work.

4.4 Using Other Developed Applications with SDK – Android

A Software Development Kit (SDK) for Android is available to all KOAMTAC customers to ensure smooth development of applications that work seamlessly with a SKXPro 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

5. SKXPro Demo: Scan & Search

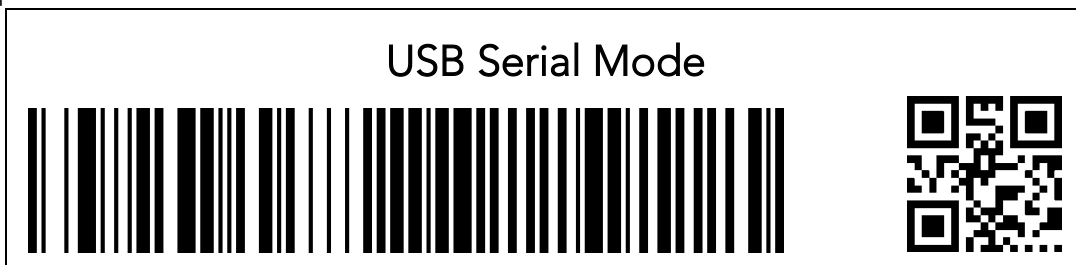
5.1 Purpose

When you scan any barcode on any product or any logistics package, the selected retail/logistics website pops up and shows the searched result or the tracking information.

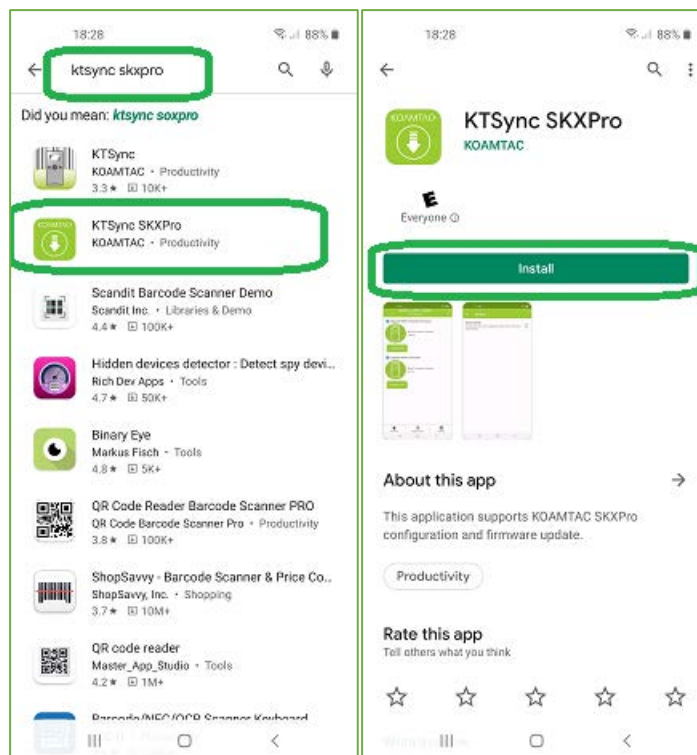
5.2 How to Test

Before Demo Instructions

1. By default, the SKXPro is in USB HID keyboard mode. In this mode, you can scan a barcode into any text field of any application.
2. To use this demo, change the mode to USB Serial Mode, (a.k.a. KTSync/Download Mode) by scanning the special barcode below first and wait for 3 seconds.

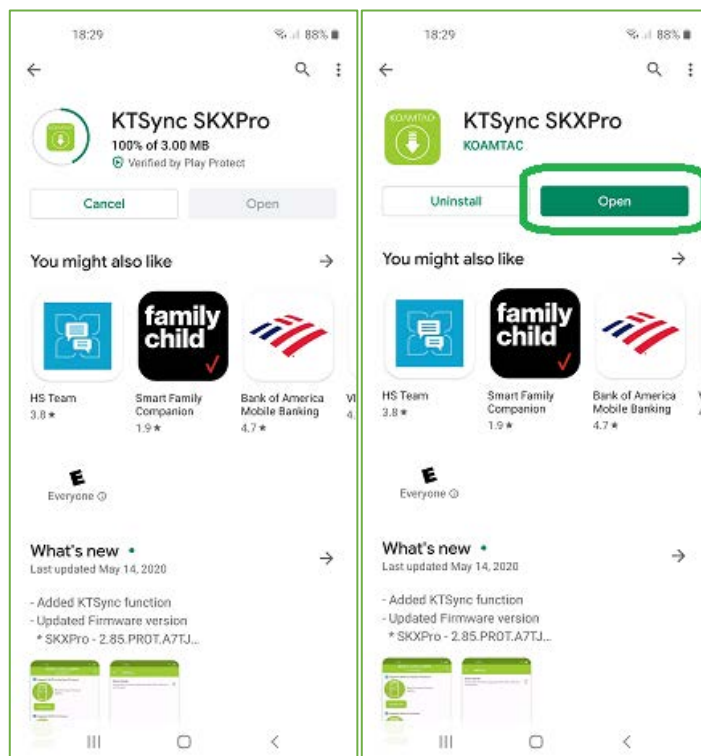


3. Now, go to the Google Play Store and search for "KTSync SKXPro". (Fig7)
4. Download and install KTSync SKXPro app from Play Store. (Fig. 8)



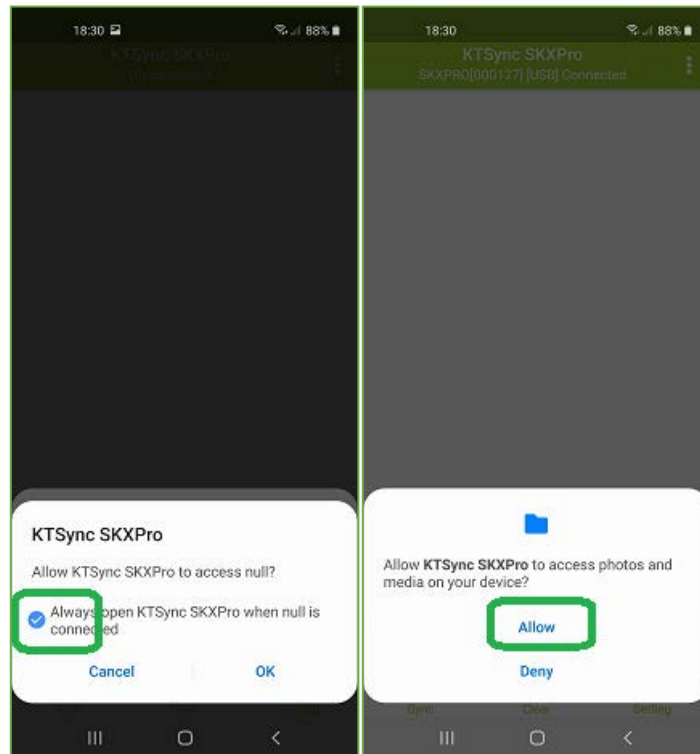
< Fig. 7 >

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



< Fig. 8 >

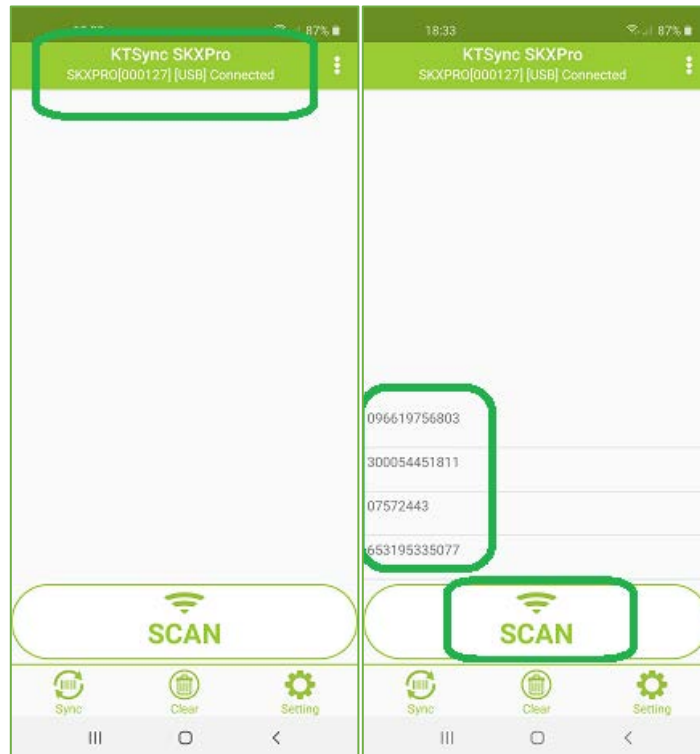
- When you open or run the KTSync SKXPro app for the first time on your phone, there are several permission popups which require you to allow them all. This is a one-time setting from the first launch. (Fig. 9)



< Fig. 9 >

Demo Instructions

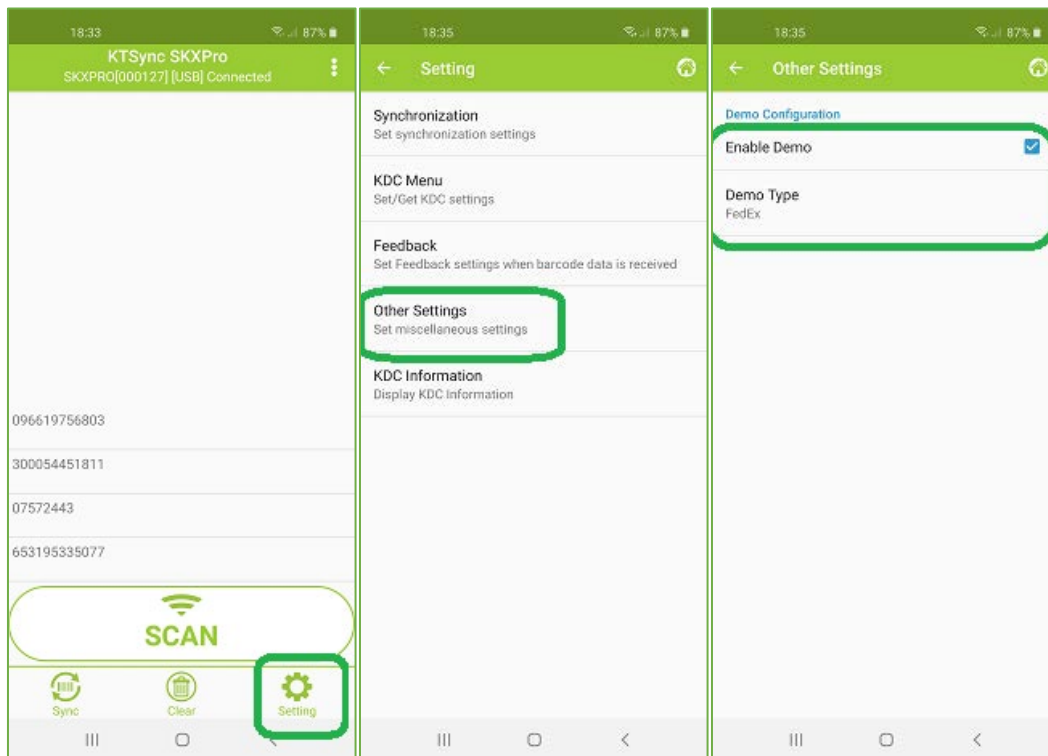
6. The KTSync SKXPro app on the XCover Pro will automatically connect to the SKXPro SmartSled when you launch it. You will see the connected message on the top, you are able to scan it. (Fig. 10)
7. For testing purpose, scan any barcode with the SCAN button on the app or with the SCAN button on the left/right side of the SKXPro and see if it is displayed on the KTSync SKXPro display screen. (Fig. 11)



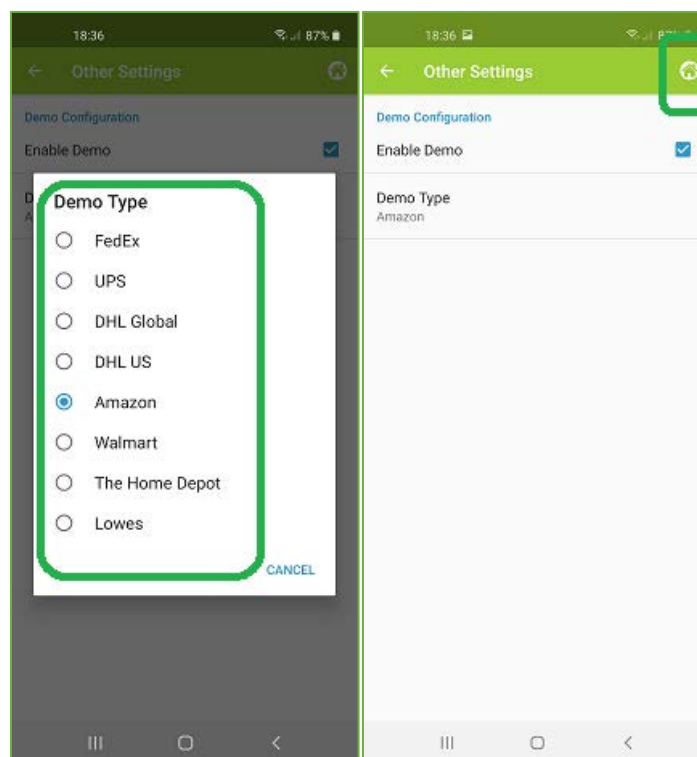
< Fig. 10 >

< Fig. 11 >

8. Enable demo mode (Setting → Other Settings → Check “Enable Demo”) (Fig.12)
9. Select the demo type (demo store): FedEx, UPS, DHL Global, DHL US, Amazon, Walmart, The Home Depot, Lowes. (Settings Other Settings Demo Type) And tap “Home” icon at the right upper corner. (Fig. 13)



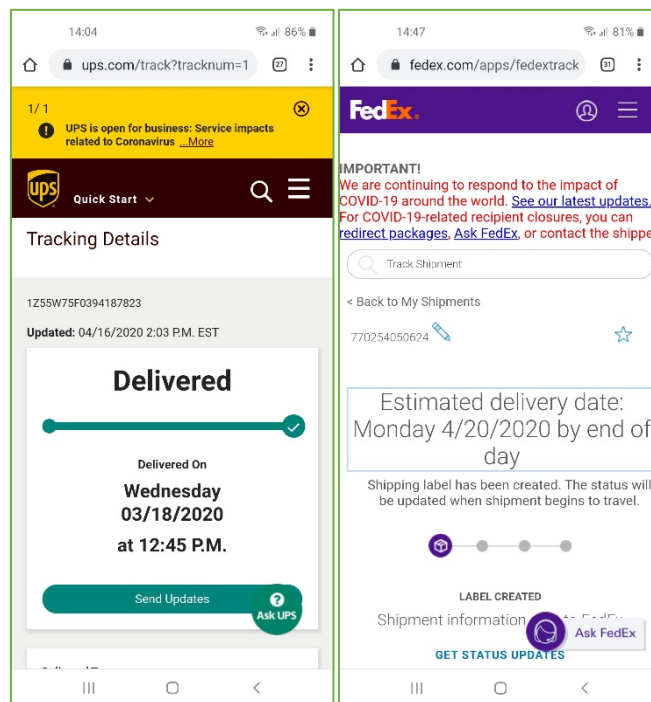
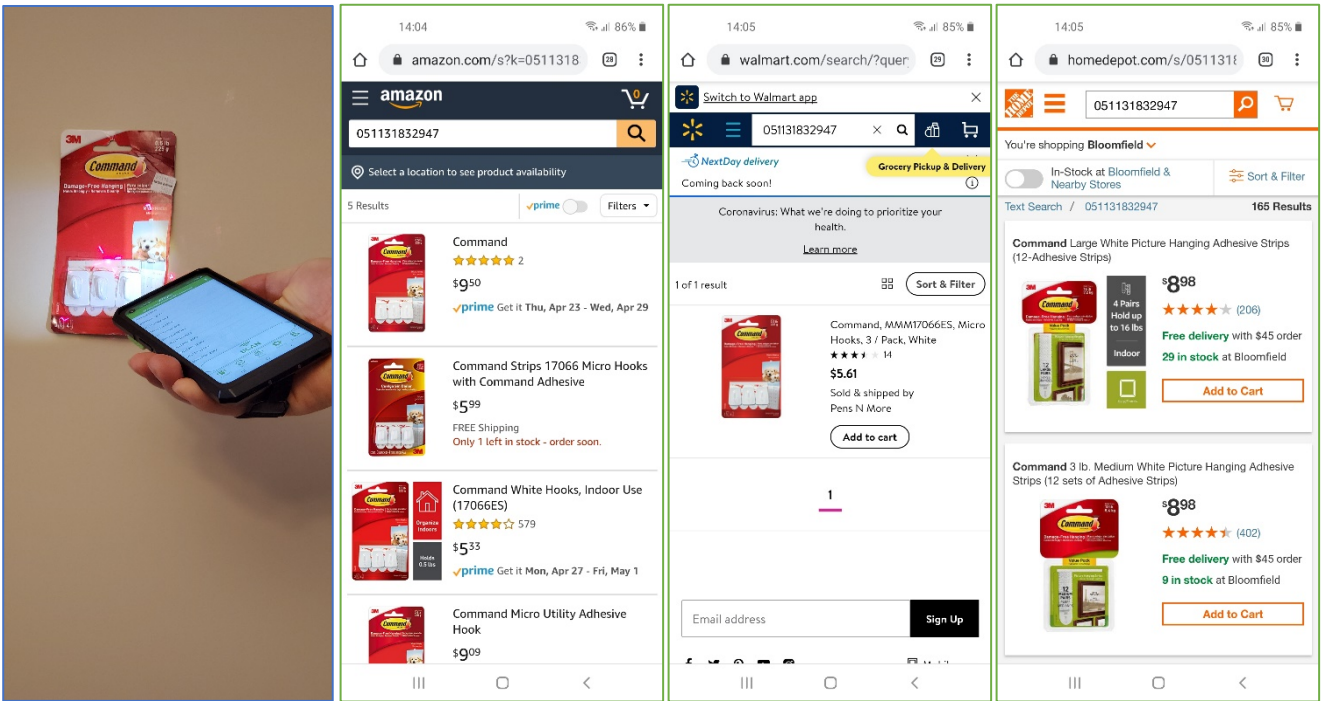
< Fig. 12 >



< Fig. 13 >

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

10. Now scan any barcode, whether it is a UPC from a product or a logistics tracking barcode. Then the selected retail/logistics website will be displayed and populated with search results for the barcode you just scanned, as shown below: (Fig. 14)

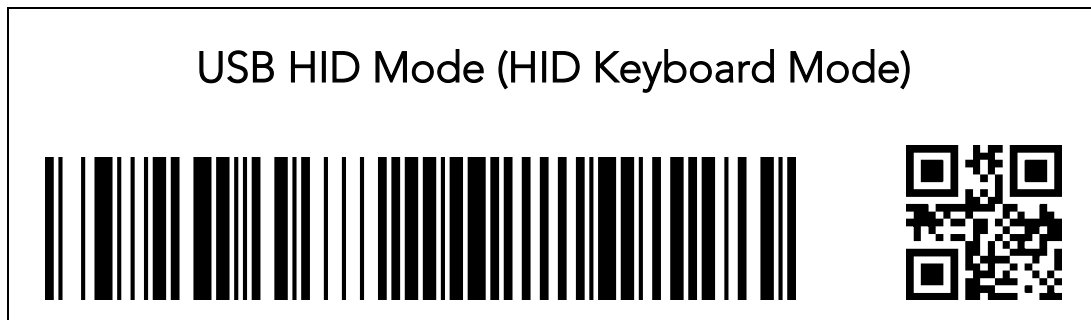


< Fig. 14 >

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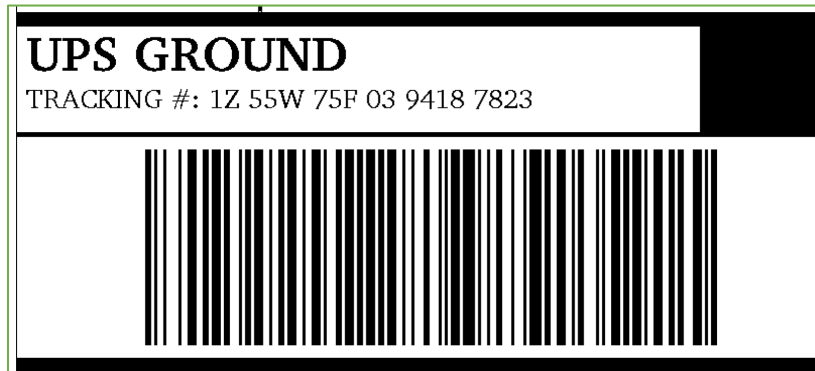
Demo Instructions

11. To finish the demo, close the KTSync SKXPro app. Next, go back to the normal USB HID Mode (HID Keyboard Mode) by scanning this special barcode below:



5.3 Sample Barcodes for Demo Testing

UPS



FedEx



Amazon/Walmart/Home Depot



6. Product Specifications

Physical	Design	Integrated Sled
	Size	3.25" x 6.61" x 0.86" (82.6 mm x 168 mm x 21.9 mm)
	Weight	Weight (XCover Pro + SKXPro): 10.1 oz (285 g) Weight (SKXPro Only): 2.4 oz (67 g) Weight (Protective Boot + Hand Strap Only): 1.34 oz (38 g)
Functionality	Supporting OS	Android
	Keys	Scan Key (2 keys from SKXPro) + Volume UP Key, Volume DOWN Key, SIDE Key, TOP Key (from XCover Pro)
	Buzzer	Yes
	LED Indicator	No LED
	USB Port	1 Type C USB Port (Access to XCover Pro)
Memory	RAM	SRAM 64KB
	ROM	Internal Flash ROM 512KB (256KB for Program, 256KB for User Data)
	Barcode Storage	13,000 Barcodes (EAN-13)
Power	Battery (Standard)	No Internal Battery
	Battery (Extended)	2,000 mAh (optional companion) 6,000 mAh with Pistol Grip (optional companion)
	Charging Solution	Pogo Pin Charging Cradle
	Charging Time	15W Fast Charging supported by Charging Cradle : 2 Hours Fast Charging via Samsung AFC adaptor Normal Charging via General USB adaptor: 3.5Hours
Communication	Bluetooth	No Bluetooth
	USB	USB Serial / USB HID
Barcode Reader	1D/2D Symbology	Yes (N6703 with 1280x800)
	Motion Tolerance	6m/sec
	Aimer	Red Laser
	Illumination	White
	Scan Range	1.57" to 20.3" (40 to 517 mm) for 10mil Code39 1.73' to 31.5" (44 to 800 mm) for 20mil Code39
	Screen Reading	Yes
	Postal Codes / OCR Passport	Yes / No
UHF Reader	Supported Standards	IEPC Class1 Gen2, EPC Gen2 V2

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Visit store.koamtac.com to purchase additional SKXPro and accessories.

(Optional)	Nominal Read Range	6'+ (1.8 m+) for 0.5W Reader 20'+ (6 m+) for 1.0W Reader dependent on tag type and operating environment
	Frequency	US, EU, JP, KR
	Output Power Range	Up to +27dBm for 0.5W Reader Up to +30dBm for 1.0W Reader
	Read Rate	100 tags per second for 0.5W Reader 200 tags per second for 1.0W Reader
	Tag Storage	N/A
Environment	Drop Spec	SKXPro with Protective Boot: 6' (1.8 m) SKXPro without Protective Boot: 5' (1.5 m) SKXPro with Companions: 5' (1.5 m)
	IP Rating	IP67 (SKXPro) IP65 (SKXPro + Companions) IP64 (SKXPro + 1.0W Reader)
	Operating Temp.	w/o companion: -22°F (-30°C) to 140°F (60°C) w/ companion: -4°F (-20°C) to 122°F (50°C)
	Storage Temp.	w/o companion: -40°F (-40°C) to 158°F (70°C) w/ companion: -4°F (-20°C) to 140°F (60°C)
	Humidity Spec	5% ~ 95% (non-condensing)
Regulatory Conformance	Laser Safety	IEC60825-1:2007 & IEC60825-1:2014, Class II
	Regulatory	FCC, CE, RoHS Compliant
Accessories	1-Slot Charging Cradle	Yes
	5-Slot Charging Cradle	Yes
	Hand strap	Yes

7. Charging Accessories and Companions

7.1 Charging Accessories

1-slot charging cradle and 5-slot charging cradle are available.



7.2 Companions

- 0.5W UHF Reader Companion
- 1.0W UHF Reader Companion
- 2000mAh Extended Battery Companion
- Pistol Grip Companion with or without spare 6,000mAh battery

