

Skorpio™ X40/45

USER'S MANUAL



Rugged Mobile Computer/
Barcode Reader with 2D Imager



Datalogic S.r.l.

Via S. Vitalino, 13
40012 Calderara di Reno (BO)
Italy
Tel. +39 051 3147011
Fax +39 051 3147205

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Patents

See www.patents.datalogic.com for patent list.

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NOTES

INTRODUCTION

CONVENTIONS

"PDA", "mobile computer", "device", "Skorpio X40/45" refer to a Skorpio X40/45 device. "Dock" refers to a Skorpio X40/45 device dock.

The label artworks may be only a draft. Refer to the product labels for more precise information.

PRODUCT OVERVIEW

ALL-DAY COMFORT, DESIGNED FOR REAL WORK

Built for high-intensity retail, light warehousing and manufacturing, the Skorpio X40/X45's compact, well-balanced design sits naturally in the hand — reducing strain and fatigue across long shifts so operators stay productive from receiving to shipping.

VERSATILE DATA ENTRY AND FIELD ADAPTABILITY

Three keyboard layout options with large, well-spaced keys deliver confident, accurate input in any application — even with gloves on. The field-detachable handle lets operators switch instantly between handheld and pistol grip, adapting to the task without slowing down.

NEVER MISS A SCAN WITH GREEN SPOT

Know instantly when a scan is good. Datalogic's patented Green Spot technology projects a visible confirmation directly onto the label, keeping eyes on the work and doubt out of the picture. Paired with high-performance 2D imagers for fast, accurate reading of 1D and 2D barcodes in any condition, the Skorpio X40/X45 keeps operations moving without missing a beat.

CONNECTED ACROSS YOUR ENTIRE OPERATION

Stay connected across your entire operation — indoors or out. Fast data sync, seamless roaming and the power to run modern enterprise apps without slowing down. Powered by Qualcomm® 4490 with 5G and Wi-Fi 6E, and built for Android™ enterprise with the long device lifecycle your fleet depends on.

ZERO DOWNTIME. ZERO COMPROMISE

The Skorpio X40/X45 supports both contact and wireless charging — with wireless eliminating the contact wear, debris build-up and maintenance of traditional pin charging. Full backward compatibility with Skorpio X5 docks and accessories means upgrading your devices doesn't mean replacing your infrastructure.

Features

- Three keyboard options (29, 39 and 48 keys) with large, well-spaced keys for accurate input with or without gloves
- Field-detachable handle - fast switching between handheld and pistol grip
- 2D Standard and Long Range imager with Green Spot™ visual scan confirmation
- 4" WVGA display with Gorilla® Glass for clear visibility indoors and out
- Contact and wireless charging — eliminating contact wear and, debris build-up and maintenance
- 7000mAh hot-swap battery for uninterrupted 24/7 operation
- IP65/67 rated, 2.4m drop-tested across full operating temperatures — built to take the daily grind
- Wi-Fi 6/6E, 5G and Bluetooth® 5.3 — fast, reliable connectivity
- Qualcomm® 4490 Octa-Core 2.4GHz processor, 6/128GB memory
- Android™ 15 with GMS, Android Enterprise Recommended — upgradeable to Android™ 19
- Datalogic Connect cloud platform for remote device management and fleet insights — compatible with all major MDM, EMM and TE solutions
- EASEOFCARE service plans with Datalogic Shield for Android security patches and OS

Industry - Application

Manufacturing

- Inventory control
- Shipping & receiving
- Work order management
- Quality control
- Track & trace

Retail

- Inventory & replenishment
- Online order fulfilment
- Price check & update
- Goods receiving
- Workforce management

Transportation and Logistics

- Receiving & putaway
- Picking & order fulfilment
- Inventory management
- Returns

Healthcare

- Receiving & quality check
- Warehousing & inventory management
- Order fulfilment
- Returns & batch tracking

AVAILABLE MODELS

The Skorpion X40/45 is available in different models depending on the features it is equipped with. All options are listed below:

- 946400001 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400002 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 29-Key Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400003 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 39-Key Functional Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400004 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, long range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400005 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 29-Key Numeric, long range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400006 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 39-Key Functional Numeric, long range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946400007 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, keyboard overlays.
- 946400008 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 29-Key Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, keyboard overlays.
- 946400009 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 39-Key Functional Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, keyboard overlays.
- 946400010 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 29-Key Numeric, long range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, keyboard overlays.
- 946400011 Skorpion X40 Pistol Grip, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, Contactless, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, kbd overlays.
- 946400012 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15, Turkey. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, kbd overlays.
- 946400013 Skorpion X40 Hand-held, Wi-Fi6E, 4" display, 6GB RAM/128GB Flash, 39-Key Functional Numeric, std range 2D Imager w/Green Spot feedback, Camera

(13MP), Android 15, China. Includes: Google Mobile Services, battery 7000 mAh, hand-strap, keyboard overlays.

- 946450001 Skorpion X45 Pistol Grip, Wi-Fi6E+5G, 4" display, 6GB RAM/128GB Flash, 48-Key Full Alphanumeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946450002 Skorpion X45 Pistol Grip, Wi-Fi6E+5G, 4" display, 6GB RAM/128GB Flash, 29-Key Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.
- 946450003 Skorpion X45 Pistol Grip, Wi-Fi6E+5G, 4" display, 6GB RAM/128GB Flash, 39-Key Functional Numeric, std range 2D Imager w/Green Spot feedback, Camera (13MP), Android 15. Includes: Google Mobile Services, battery 7000 mAh, lanyard, keyboard overlays.

For further details about the Skorpion X40/45 models refer to the web site:

<http://www.datalogic.com>.

For further information regarding Android refer to the website:

www.android.com.

OUT OF THE BOX

The Skorpion X40/45 package contains:

- Skorpion X40/45 device
- Rechargeable one-piece battery pack
- Keyboard overlays
- Handstrap (handheld models only)
- Handstrap lower bridge (handheld models only)
- Lanyard (Pistol grip models only)
- Quick Start Guide
- Safety & Regulatory Addendum

Remove all the components from their packaging; check their integrity and compare them with all the packing documents.



CAUTION: Keep the original packaging for use when sending products to the technical assistance center. Damage caused by improper packaging is not covered under the warranty.

GENERAL VIEW

Top View



Front View

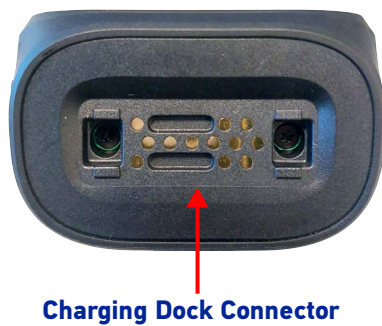


Back View



Bottom View

Models With Contacts



Wireless Charging Models (Skorpio X40 only)



Side View

Handhed Models



Pistol Trigger Models





CAUTION: When cleaning the device, avoid applying the detergent directly on the contacts. Moisten a soft dry cloth with an approved cleaning agent (see "Cleaning" on page 73) to rub it across them. Do not leave any residue.



CAUTION: Do not apply any sticker to the Skorpion X40/45.



ACCESSORIES

Docks & Chargers

- 94A150143 4-Slot Charging Dock -charge only for Skorpion X40/X45 and Falcon X60/X65 (Requires Power Supply 94ACC0380 and regional power cord; includes adapters for devices without rubber boot)
- 94A150144 4-Slot Dock Charging/Data (Ethernet) for Skorpion X40/X45 and Falcon X60/X65 (Requires Power Supply 94ACC0380 and regional power cord; includes adapters for devices without rubber boot)

Batteries

- 94ACC0440 Skorpion X40/X45 and Falcon X60/X65 Battery pack

Cases & Holsters

- 94ACC0441 Skorpion X40/X45 Rubber Boot (fits both handheld and pistol grip configurations)
- 94ACC0443 Belt Holster for Skorpion X40/45 (fits both handheld and pistol grip configurations, belt clip included, belt not included)

Power Supplies & Cords

- 94ACC0383 Power Wall Adapter with 4 regional plugs – USB A (for 94ACC0327 USB A to USB C cable)
- 95A051041 Power Cord, Europe
- 95ACC1113 Power Cord, NA
- 95ACC1213 Power Cord, UK
- 95ACC1215 Power Cord, Australia
- 95ACC1212 Power Cord, Japan

Miscellaneous

- 94ACC0445 Skorpion X40/X45 Handle
- 94ACC0447 Skorpion X40/X45 GUN to HH conversion kit
- 94ACC0450 Skorpion X40/X45 and Falcon X60/X65 Handstrap (pack of 5)
- 94ACC0451 Skorpion X40/X45 Screen Protector (pack of 5)
- 94ACC1230 Belt Clip for Holster (pack of 10)
- 94ACC0453 Adapter for wired charging/desktop docks (4 PCS/unit), for Skorpion X40/X45 and Falcon X60/X65 without protective boot
- 94ACC0327 USB-A to USB C cable / 1.2m long
- 94ACC1240 Shoulder Strap - pack of 5
- 94ACC0455 Skorpion X40/X45 Overlay for 48-key Full Alphanumeric keyboard. Includes both overlay with graphic and TE overlay (pack of 5 + 5)
- 94ACC0456 Skorpion X40/X45 Overlay for 29-key Numeric keyboard. Includes both overlay with graphic and all-black overlay (pack of 5 + 5)
- 94ACC0457 Skorpion X40/X45 Overlay for 39-key Functional Numeric keyboard. Includes both overlay with graphic and TE overlay (pack of 5 + 5)

Accessories shared with Skorpion X5, Memor Family, and Joya Family

- 94A150106 Skorpion X5 Single Dock Wireless Charging (requires Power Supply 91ACC0048 and regional power cord)
- 94A150151 Skorpion X5 Single Dock with contacts (requires Power Supply 91ACC0048 and regional power cord)
- 94A150108 Skorpion X5 3 Slot Dock Wireless Charging (requires Power Supply 91ACC0048 and regional power cord)
- 94A150110 Skorpion X5 3 Slot Dock with contacts with Ethernet communication (requires Power Supply 91ACC0048 and regional power cord)
- 94ACC0274 Skorpion X5 4 Slot Battery Charger (requires Power Supply 91ACC0048 and regional power cord)
- 91ACC0092 Skorpion X5 Standard Battery pack
- 91ACC0093 Skorpion X5 Extended Battery pack
- 91ACC0048 Power Supply for SX5/SX40/SX45/FX60/FX65/Memor 1/Joya Touch 3-Slot Cradle/Dock and Single Slot Dock; Requires Line Cord (for 3-slot powers up to 2 docks in Standard Charge mode and 1 dock in Fast Charge mode)
- 94ACC0318 Skorpion X5 3 Slot Dock Metal Plate
- 94ACC0380 Power Supply, for Charging Docks, Memor 30-35, Memor 12-17, Skorpion X40/X45 and Falcon X60/X65 (power cord to be purchased separately)
- 94ACC0081 Lanyard Kit 5pcs for Skorpion X5, Skorpion X40/X45, Falcon X60/X65 and for Memor 11, 12-17,30-35 pistol grip
- 91ACC0049 Daisy chain connector (5 pieces) for M12-17/M30-35/JT/M1/SX5/SX40/SX45/FX60/FX65 charging docks and multi battery chargers

BATTERY

INSTALL THE BATTERY

Insert the battery pack into the slot, top first, and press it into place.



CHARGE THE BATTERY

The battery pack is not initially fully charged. After installing the battery, charge it with a USB Type-C cable or with a dock.

During the charging process the notification LED positioned at the top right side of the display glows red constantly. Once the charging process has been completed, the notification LED glows green constantly.

Charge with USB

Use the Datalogic power adapter wall kit (sold separately, p/n 94ACC0383) to charge the device from a power outlet.



You can also use a USB Type-C cable to charge the device from any self-powered USB hub or USB port on a computer.

Charge with the dock

Insert the device into the dock with the screen facing front and the head facing up.



To remove the device from the dock, pull it upwards while holding the dock firmly down.



CAUTION: Use only a Datalogic approved power supply to power any of the docks.



CAUTION: Use only a Datalogic approved power supply to power any of the docks.

Do not put any foreign object such as, but not limited to, coins, paper clips, stickers inside the slot of any of the wireless charging docks (see the example below).

Foreign objects could overheat.



No Clip



No Coin



No Sticker



NOTE: For information on the docks, refer to the Quick Start Guide included in the dock's box.



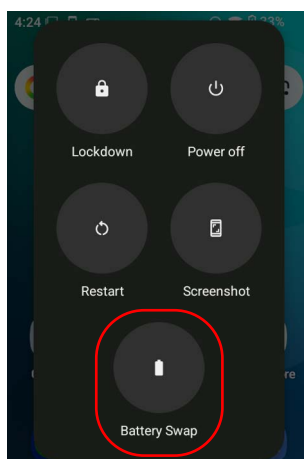
NOTE: The Skorpio X40/45 may get warm during charging. This is normal and does not mean a malfunction.

BATTERY SWAP

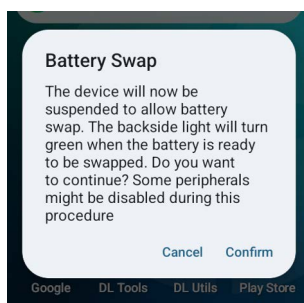
Battery Swap mode is a low-power suspend mode that allows you to replace the battery pack without closing files and applications. It maintains the main memory contents and keeps applications running, but does not allow you to operate any of the device's functions.

To switch to Swap Battery mode:

1. Press and hold the **Power** button to display the **Long Press Menu** and tap **Battery Swap**:



2. Tap **Confirm**.



3. The Notification LED starts blinking blue.
4. Replace the battery within 150 seconds to preserve the active Wi-Fi and Bluetooth sessions (see "[Install the Battery](#)" on page 12). Monitor the Notification LED for your remaining time:
 - Blinking Blue: 150 seconds remaining.
 - Blinking Yellow: 60 seconds remaining.
 - Blinking Red: Final 30 seconds.
5. Once the new battery is inserted, the Notification LED will turn solid green if the new battery is valid (>5%), solid red is the new battery is invalid (<5%). See "[LED Indicators](#)" on page 37 for more details.
6. Press and release the power button to resume your session. The battery LED will turn off.



CAUTION: Be sure to insert a charged battery pack. If the battery is fully discharged, the device may turn off. If this happens, insert a charged battery and press the power on button to boot-up the device.



NOTE: The battery swap procedure is not available when the device is connected to a power source.

BATTERY INFORMATION



CAUTION: Do not incinerate, disassemble, short devices, or expose to high temperature. Risk of fire and explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of batteries as required by local authorities.



ATTENTION: Ne pas incinérer, démonter, court-circuiter les appareils et ne pas les exposer à des températures élevées. Risque d'incendie et d'explosion. Utilisez uniquement le chargeur spécifié. Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles conformément aux exigences des autorités locales.

By default, the main battery pack is disconnected at the factory to avoid damage due to excessive draining.

Rechargeable battery pack is less than half of full charge when delivered. Charge the battery pack as indicated in the Quick Start Guide or in the User Manual, before using the Skorpion X40/45 device.

The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc.

To maximize battery life, turn off radios when they are not needed.

Close to the limits of the working temperature, some battery performance degradation may occur.

The Skorpion X40/45 should be charged at an ambient temperature between 20 - 35° C (68 to 95°F) to achieve the maximum charging rate.

Never charge the device battery in a closed space where excessive heat can build up. As a safety precaution, the battery may stop charging to avoid overheating.

The Skorpion X40/45 gets warm during charging; this is normal and does not mean a malfunction.

Even if the storage temperature range is wider, in order to achieve the longest battery life, store the device and the spare batteries between 20 to 30°C (68 to 86°F).

To maximize operating autonomy, the Skorpion X40/45 checks its battery level at all times. If the battery is not sufficiently charged, the Skorpion X40/45 will not turn on when the ON/OFF Power button is pressed.

In this case, either substitute with a charged battery, insert the Skorpion X40/45 into a powered cradle, or plug it into a wall charger.



CAUTION: Avoid storing batteries for long periods in a state of full charge or very low charge or in a state of continuous charging, especially at temperature higher than 30°C.

We recommend charging the battery pack every two to three months, if it is not used for long time, to keep its charge at a moderate level to maximize battery life.

Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.



WARNING: Use only Datalogic approved batteries and accessories for battery charging.

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteries usagées conformément aux instructions.

BATTERY SAFETY GUIDELINES



WARNING: Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.

Installing, charging and/or any other action should be done by authorized personnel and following this manual.

The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions.

If the battery pack is replaced with an improper type, there is risk of explosion.

To power the cradle, use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.

The area in which the units are charged should be clear of debris and combustible materials or chemicals.

Do not use the battery pack of this device to power devices other than this device.

Avoid storing batteries for long periods in a state of continuous charging, full charge or very low charge, especially at temperature higher than 30°C.

Periodically check the battery status and immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, swelling or appears abnormal in any other way.

Do not short-circuit the battery pack contacts connecting the positive device and negative device. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short-circuiting the devices may damage the battery pack or the connecting object.

Do not apply voltages to the battery pack contacts.

Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.

Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.

In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor.

Do not solder directly onto the battery pack.

Do not expose the battery pack to liquids.

Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it.



WARNING: If your device stops working for any reason, do not use its battery on other electronic devices without a prior check and approval by an Authorised Repair Centre.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

Collect and recycle waste batteries separately from the device in compliance with European Directive 2013/56, 2011/65, 2012/79 and subsequent modifications, with US and China regulatory laws and regulations about the environment.



WARNING: Risk of Fire. To reduce the Risk of Injury, user must read instruction manual.

AVERTISSEMENT: Risque d'incendie. Pour prévenir les blessures, l'utilisateur doit lire le manuel d'utilisation.

SD CARD/ SIM CARD



NOTE: The Skorpion X40/45 supports microSDXC cards (up to 2TB). Contact the sales support team to select the memory card for your device.

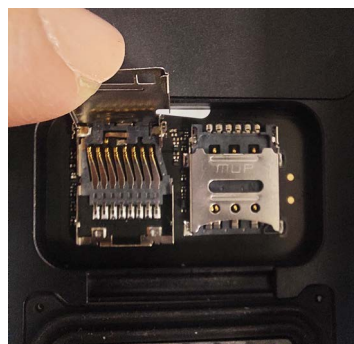
ACCESS THE SD/SIM CARD SLOTS

1. Turn off the device.
2. Press the battery latch and remove the battery pack.
3. Pull the tab to lift and remove the SD/SIM card slot cover.



Install the SD Card

1. Slide the card holder upward, then pull it up.



2. Insert the microSD card with the written part upward. Lock the card into place by pushing the cardholder down, and then sliding it downward.

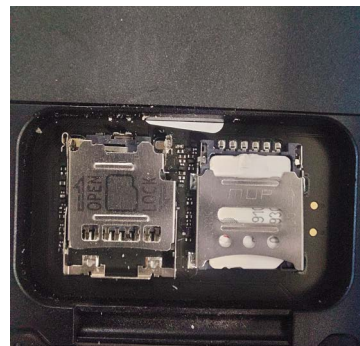
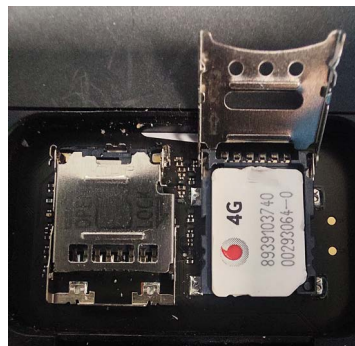


Install the SIM Card

1. Slide the card holder upward, then pull it up.



2. Insert the SIM card with the written part upward. Lock the card into place by pushing the cardholder down, and then sliding it downward.



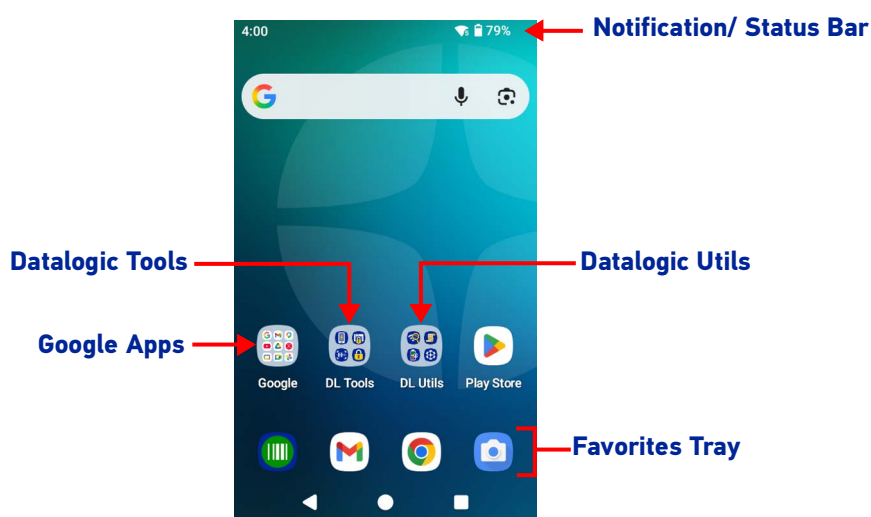
Replace the SD/SIM card slot cover and press it, then replace the battery pack.

GETTING STARTED

TURN ON THE DEVICE

To turn on the Skorpion X40/45, press and hold the power button for at least 4 seconds.

HOME SCREEN



Home Screen Items

Notification/Status Bar	Displays the time, status icons (right side), and notification icons (left side).
Favorites Tray	It is like a dock for your home screen. By default, it includes commonly used apps, but you can customize it.
Datalogic Utils	Shortcut to Datalogic's native applications and settings: Datalogic Settings, SoftSpot, Battery Manager, WiFi Guard, Logger.
Datalogic Tools	Shortcut to Datalogic's tools: Scan2Deploy, Launcher, Browser, Scan Demo.
Google Apps	Shortcut to Google's native applications: Google, Gmail, Maps, YouTube, Drive, YT Music, Google TV, Meet, Photos.

Status Bar Icons

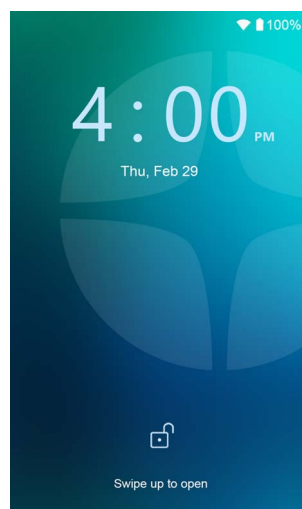
	Wi-Fi is on.		Battery is low.
	Wi-Fi not connected.		External power source is connected.
	Wi-Fi connected no internet.		Battery is full.
	Connected to a Wi-Fi network.		Battery is partially drained.
	Bluetooth is on.		Airplane mode.
	Vibrate mode.		SD storage.

SUSPEND MODE

Suspend mode automatically turns the screen off and locks the terminal to save battery power when the terminal is inactive for a programmed period of time.

Press and release the power button to toggle the terminal in suspend mode.

Press and release the power button or any of the wake-up sources to toggle the terminal out of suspend mode. The default wake-up sources are the side triggers, the pistol trigger and the PTT. Use the **Datalogic Settings** to customize them (see [Wake-Up Policies](#)).

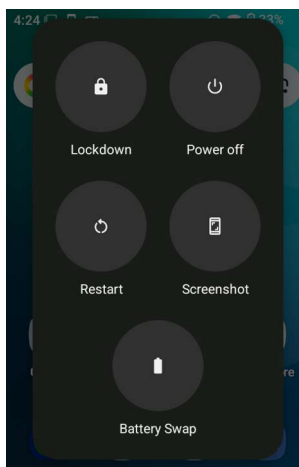


To unlock the home screen, tap anywhere on the screen and drag your finger upward.

To set the timeout limit, see [Suspend Timeout](#).

LONG PRESS POWER MENU

Press and hold the **Power** button until the **Long Press Menu** menu displays:



Lockdown

Tap **Lockdown** to turn on lockdown mode, a high-security setting that instantly disables biometrics (fingerprint/face unlock) and lock screen notifications, requiring a PIN, a pattern, or a password to unlock the device. To set the screen lock, tap **Settings > Security & privacy > Device unlock > Screen lock**.

Power Off

Tap **Power Off** to turn off the terminal. When you turn off the terminal, the session you are working on expires and it won't be possible to restore it.

Restart

Tap **Restart** to restart the terminal.

Screenshot

Tap **Screenshot** to take a screenshot.

Battery Swap

Tap to perform a Battery Swap. See "[Battery Swap](#)" on page 14.

APPLICATIONS

The **All Apps** screen displays icons for all installed applications. The table below lists the default applications installed on the Skorpio X40/45.

Datalogic Utilities

Icon	Description
	Datalogic Settings - See " Datalogic Settings " on page 38.
	SoftSpot - A configurable application meant to provide easy access to frequently used functionalities, as well as activating the scan engine of the device (see " SoftSpot™ " on page 50).
	Battery Manager - Provides information on the battery type, charge, status and temperature, allows to set the charging profile and to log battery data (see " Battery Manager " on page 50)
	Dock Manager - Provides information on the dock and allows unlocking the docked devices (see " Dock Manager " on page 50).
	WiFi Guard - Android application that collects information on a Wi-Fi network and provides tools to assist in improving network performance and diagnosing connection problems.
	Logger - Android application that collects device logs for further analysis (see " Datalogic Logger " on page 50).
	Aladdin - Android application that allows users to pair and access various features and settings of a CODiScan scanner (see " Aladdin for CODiScan " on page 51).

Datalogic Tools

Icon	Description
	Scan2Deploy - Configuration tool (see " Scan2Deploy " on page 54).
	Launcher - Android application that locks down the device to launch only allowed applications (see " Datalogic Launcher " on page 54).
	Browser - Android application for web browsing to only allowed sites and to expose JavaScript access to the scanner (see " Datalogic Enterprise Browser " on page 54).
	Scan Demo - Enables data capture (see " Data Capture " on page 55).

Google Applications

Icon	Description
	Calendar - Lets you manage events and appointments.
	Chrome - Google's own web browser. Use it to access the Internet or intranet.
	Drive - Google's own file storage and synchronization service. Use it to safely store, synchronize and share your photos, videos, files and more in the cloud.
	Files - Use it to free up space on your device and browse and share your files.
	Gemini - Google's AI assistant.
	Gmail - Use it to send and receive email.
	Google - Google's own web search engine.
	Google TV - Google's own online video on demand service. It offers movies and television shows for purchase or rental, depending on availability.
	Maps - Google's own mapping mobile app.
	Meet - Google's own video communication service. Use it to make video calls in high definition.
	Photos - Google's own photo sharing and storage service.
	Play Store - Google's own digital distribution service. It serves as the official app store for the Android operating system and as a digital media store.
	Youtube - Google's own video-sharing website
	YT Music - Music streaming service from YouTube

Android Applications

Icon	Description
	Calculator - Provides the basic and scientific arithmetic functions.
	Camera - Use it to take photos or record videos.
	Clock - Lets you schedule alarms for appointments or as a wake-up.
	Contacts - Allows you to manage contacts information.
	DisplayLink Desktop - Allows to connect a DisplayLink device and use your apps on a desktop monitor.
	Keep Notes - Note-taking service developed by Google. It offers a variety of tools for taking notes, including text, lists, images, and audio.
	Settings - Use it to configure the Skorpion X40/45 (see " Settings " on page 38).
	Sound Recorder - Tool for recording the sound and editing the saved recordings.
	Vysor - Lets you view and control your Android on your computer.

TOUCH GESTURES

Tap	Tap the screen with your finger or with the stylus to open items and select options.
Drag	Hold your finger or the stylus on the screen and drag across the screen to scroll or pan. Drag in a list to select multiple items.
Tap-and-hold	Tap and hold your finger or the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

KEYBOARDS

The Skorpion X40/45 comes with three different keyboards: a 48-key alphanumeric, a 39-key function numeric keyboard and a 29-key numeric keyboard.

Alphanumeric Keyboard (48 Keys)



Key	Function
	Datalogic logo key - Enable a virtual extension of the physical keyboard. Press the on-screen keys, or the corresponding keys on the physical keyboard, to generate the characters displayed on the screen. The keys are configurable (see " Configure Datalogic Logo Key " on page 31).
	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power. For pistol grip models only, the trigger performs the same function as the SCAN key.
	Yellow modifier (toggle key) - when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key) - when pressed before a standard key, it enables the character or function printed in blue above the key.

Function Numeric Keyboard (39 Keys)



Key	Function
	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power. For pistol grip models only, the trigger performs the same function as the SCAN key.
	Yellow modifier (toggle key) - when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key) - when pressed before a standard key, it enables the character or function printed in blue above the key.

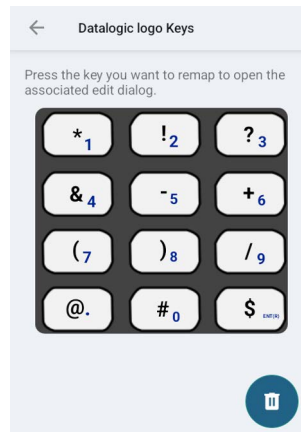
Numeric Keyboard (29 Keys)



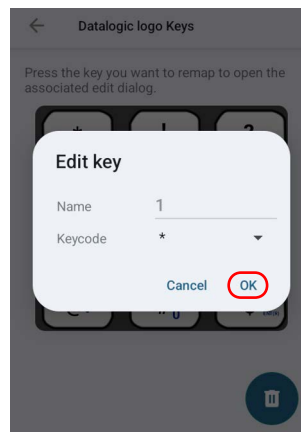
Key	Function
	Datalogic logo key - Enable a virtual extension of the physical keyboard. Press the on-screen keys, or the corresponding keys on the physical keyboard, to generate the characters displayed on the screen. The keys are configurable (see " Configure Datalogic Logo Key " on page 31).
	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power. For pistol grip models only, the trigger performs the same function as the SCAN key.
	Yellow modifier (toggle key) - when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key) - when pressed before a standard key, it enables the character or function printed in blue above the key.

Configure Datalogic Logo Key

To configure the virtual keys, tap **Datalogic Settings > Keyboard & touch > Advanced keyboard settings > Datalogic logo keys**.



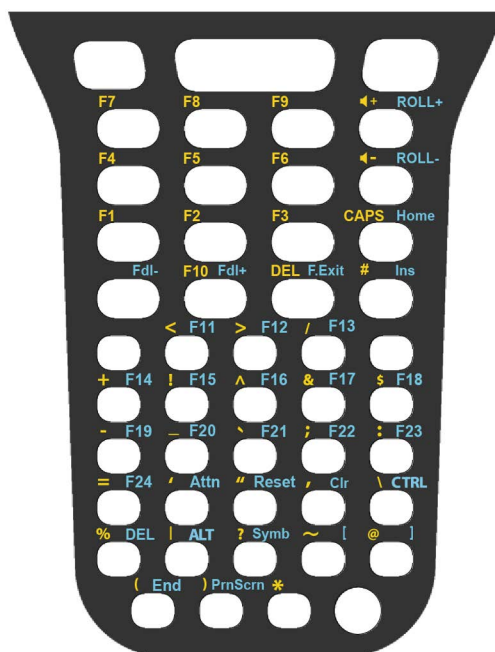
1. Press the key you want to remap to open the edit dialog.



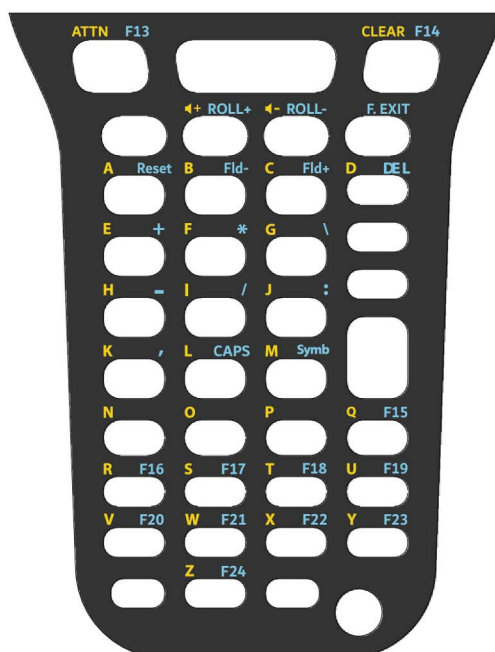
2. Select the new Keycode you want to assign, then type OK.

Terminal Emulation Overlays

Terminal Emulation Overlay for Alphanumeric Keyboard (48 Keys)

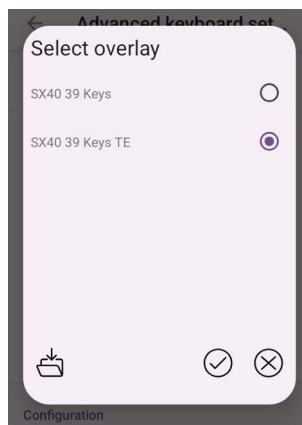


Terminal Emulation Overlay for Function Numeric Keyboard (39 Keys)



CAUTION: Use plastic tweezers only to replace the overlay.

To enable the terminal emulator, tap **Datalogic Settings** > **Keyboard & touch** > **Advanced Keyboard Settings** > **Install New Keyboard/Overlay** and select the TE overlay.



RESET THE DEVICE

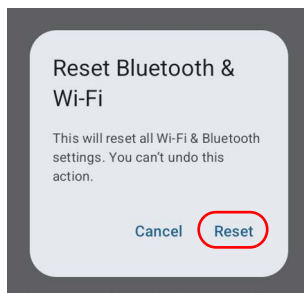
Configuration Reset

Configuration reset sets the configuration of the device (all its settings) to a known status: the factory status or an enterprise-user-defined status.

Reset Bluetooth & Wi-Fi

Resets all Bluetooth and Wi-Fi settings.

1. Tap **Settings > System > Reset options > Reset Bluetooth & Wi-Fi**.



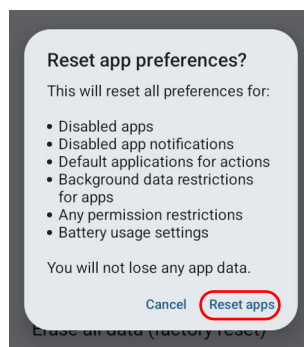
2. Tap **Reset**.

Reset App Preferences

Resets all preferences for:

- disabled apps
- disabled app notifications
- default applications for actions
- background data restrictions for apps
- any permission restrictions
- battery usage settings.

1. Tap **Settings > System > Reset options > Reset app preferences**.



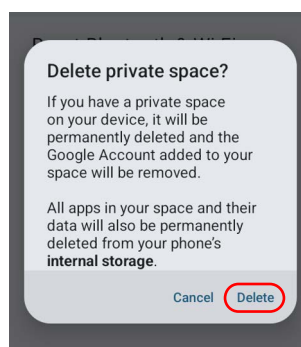
2. Tap **Reset apps**.

Delete Private Space

Private space creates a secure, isolated, and password-protected environment on your device to hide sensitive apps and data. When locked, apps, notifications, and data within this space are hidden from the app drawer, recent apps, and settings.

Activating this option permanently removes all apps, files, media, and associated Google accounts within your private space without backing them up. It requires authentication to execute.

1. Tap **Settings > System > Reset options > Delete private space**.
2. Enter your pin.

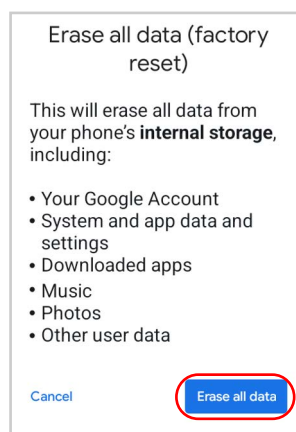


3. Tap **Delete**.

Factory Reset

Brings the device to the default configuration, clearing all the user-customized settings.

1. Tap **Settings > System > Reset options > Erase all data (factory reset)**.



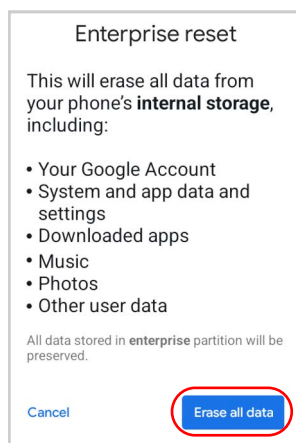
2. Tap **Erase all data**.

Enterprise Reset

Enterprise Reset brings the device to an enterprise-user-defined configuration, clearing all data and settings except the ones persisted by the enterprise system applications in the **enterprise** flash partition and in the **splash** flash partition.

The Enterprise folder is a file system storage that is used for deployment and device-unique data. It is persistent and maintains data after an Enterprise reset. Applications and custom settings (i.e. custom boot animation and wallpaper) can persist data after an Enterprise Reset by saving them to the enterprise folder.

1. Tap **Settings > System > Reset options > Enterprise reset**.



2. Tap **Erase all data**.

LED INDICATORS

The LEDs illuminate to indicate various functions or errors on the reader. The following tables list these indications. The good read LED indicator is programmable, and may or may not be enabled (see [Scanner & Decoder](#) for more details). The notification LED is configurable via SDK.

LED	Status	Description
Notification LED	Green - Solid	External power: Charging completed. During Battery Swap: valid battery (>5%) inserted. Press the Power Key to resume the system.
	Red - Solid	External power: Device is charging. During Battery Swap: invalid battery (<5%) inserted. System resume not allowed. Replace with a valid battery.
	Red - Blinking	External power: charging fault. During Battery Swap: swapping is taking more than 120sec, or backup battery almost depleted.
	Red - Fast Blinking	During Battery Swap: very depleted battery inserted. System resume and recharge not allowed. Replace with a valid battery.
	Blue - Blinking	System in Battery Swap: swapping is taking less than 90sec.
	Yellow - Blinking	System in Battery Swap: swapping is taking more than 90sec, or backup battery start to depleting.
Good Read LED	Red	Light is solid red from the time the user presses the scan key until the barcode is decoded, until the scanner times out, or until the user releases the scan key.
	Green	Light changes to solid green when a good decode is completed.

SETTINGS

OVERVIEW

The **Settings** app allows you to check or set system parameters to customize your device. To open the **Settings** screen, tap the **Settings** icons on the **All Apps** screen.

DATALOGIC SETTINGS

The **Datalogic Settings** app allows you to configure scanner and decoder, control power and source behavior, configure keyboard, trigger and mappings, Wi-Fi roaming, USB data and features, touch mode settings, NTP server address status and navigation bar, update device firmware and display device information.

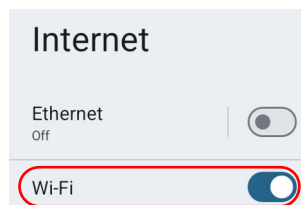
For more information, visit the website: <https://datalogic.github.io/dl-settings/overview>.

ANDROID SETTINGS

Network & Internet

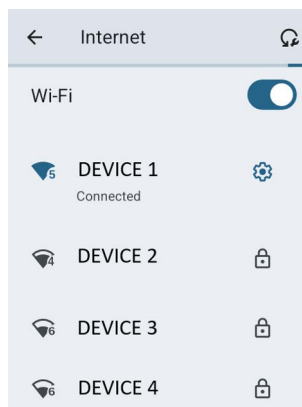
Connect to Wi-Fi Network

1. To turn on/off the Wi-Fi, tap **Settings > Network & Internet > Internet > Wi-Fi**.



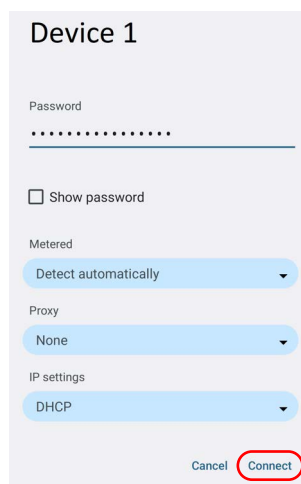
If the device finds a network that you connected to previously, it will connect to it automatically.

The device also scans for available Wi-Fi networks within range and lists them. Secured networks are indicated with a lock icon.



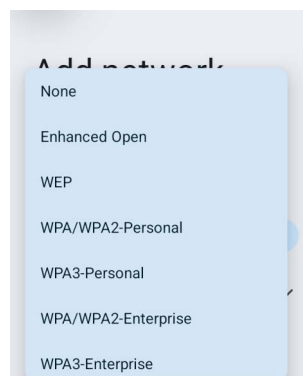
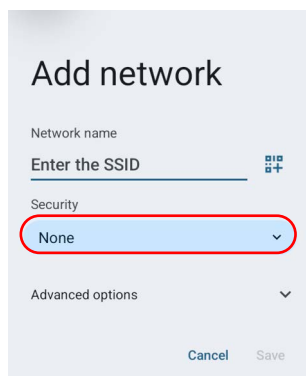
2. Select the network name you want to connect to from the available network list.
3. If the network is open, tap the profile and then tap **Connect**, or press and hold and then select **Connect**.

If the network is secured, a dialog box appears requesting information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information, then tap **Connect**:



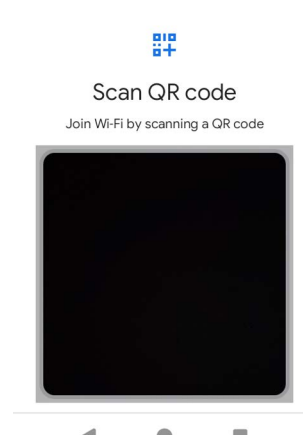
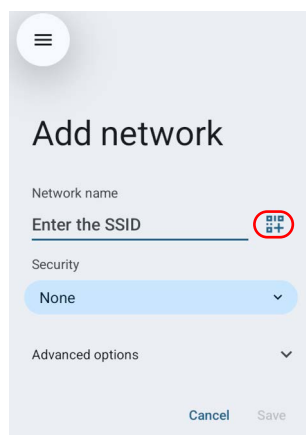
Add a Wi-Fi Network

1. Tap **Settings** > **Network & Internet** > **Internet** and verify that the Wi-Fi is turned on.
2. Tap **Add network** at the end of the available network list:
3. Enter the Network SSID (Wi-Fi network name). For secure Wi-Fi network connections, tap **None** under **Security**, and then select the type of security protocol required from the pop-up menu. Enter any additional security information required by the type of security protocol selected.



4. Tap **Save**.

To connect Wi-Fi with a QR code, tap the QR code icon and then scan the Wi-Fi QR Code to join the network.



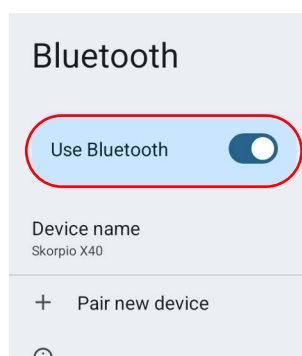
Connected Devices

Bluetooth Settings

To create a Bluetooth® pairing between your device and another device that has Bluetooth® capabilities, ensure that the two devices are turned on, discoverable, and within operable range.

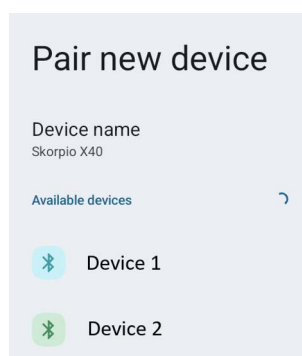
Enable Bluetooth®

To enable/disable Bluetooth® connection, tap **Settings > Connected devices > Connection preferences > Bluetooth > Use Bluetooth**.

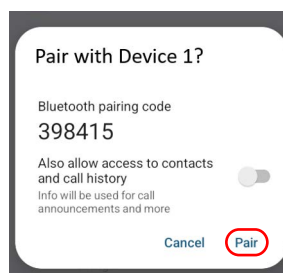


Connect to Other Bluetooth® Devices

1. Tap **Pair new device**. The device automatically starts searching for discoverable devices.



2. Swipe up the list and select a device. The **Bluetooth pairing request** dialog box displays on the screen:

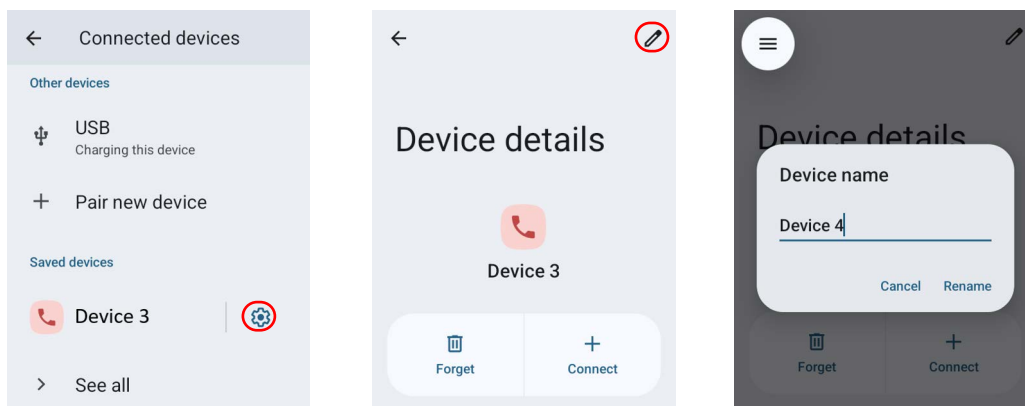


3. Make sure both devices show the same passkey and tap **Pair**.
4. The selected Bluetooth® device is added to the **Saved devices** list and a paired connection is established.

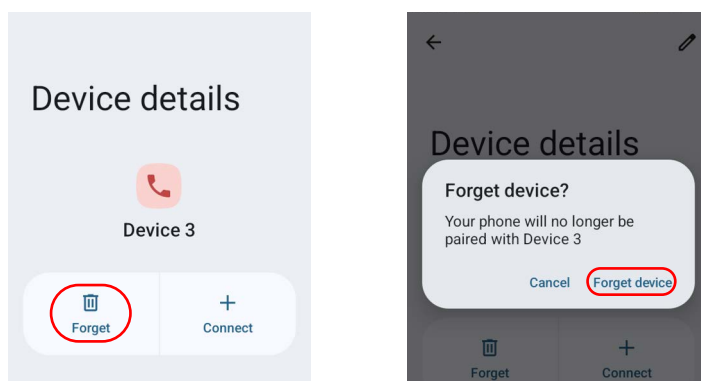
Configure, Rename or Unpair Bluetooth® Devices

Tap **Settings** > **Connected devices**.

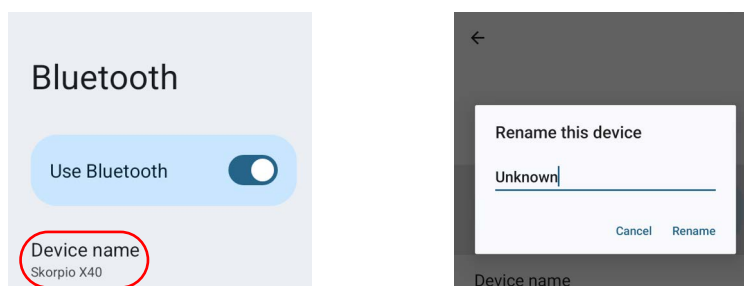
Select a device under **Saved devices** and tap the settings icon next to its name. The **Device Details** window displays on the screen. Tap the **Edit** icon to rename the paired device.



Tap **FORGET** to unpair:



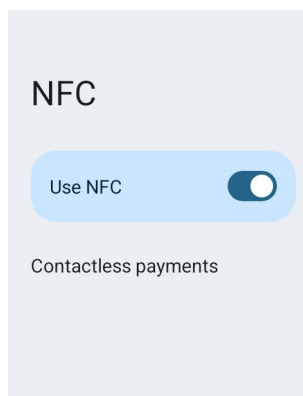
To rename your device, tap **Settings** > **Connected Devices** > **Connection preferences** > **Bluetooth** > **Device name**. Type in the new name.



Tap **Rename** to confirm.

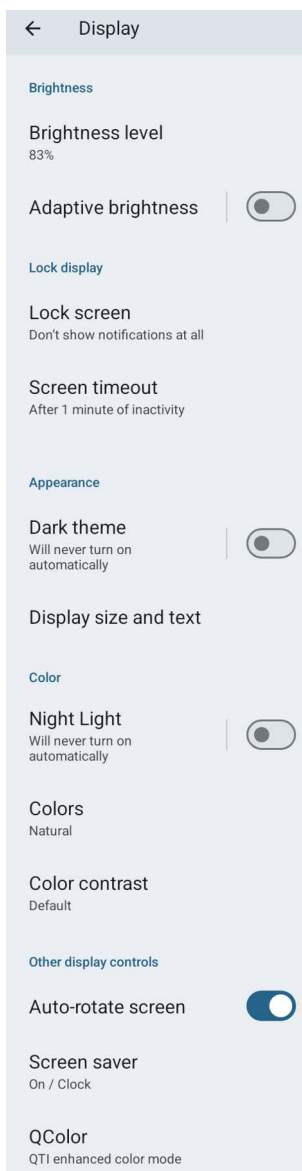
NFC

To enable/disable short-range wireless data exchange, tap **Settings > Connected Devices > Connection preferences > NFC > Use NFC**.



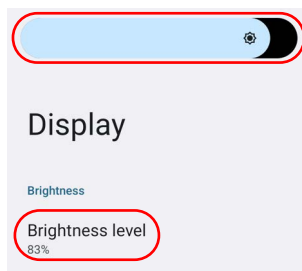
Display

Use the Display settings to set the screen brightness and theme, enable night light, change the screensaver, enable screen rotation, set display and font size.



Brightness Level

Tap **Brightness level** and use the slider at the top of the screen to adjust the screen brightness level.



Adaptive Brightness

If enabled, your screen brightness will automatically adjust to your environment.

Lock Screen

Tap to customize your lock screen.

Screen Timeout

Tap to set the suspend timeout (see [Suspend Timeout](#)).

Dark Theme

Tap to enable black background.

Display Size and Text

Tap to set the size of the items on your screen and to customize the font.

Night Light

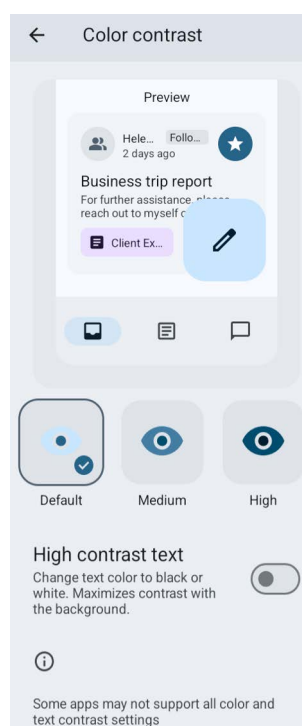
Tap to enable Night Light and adjust its intensity.

Colors

Tap to adjust the color settings.

Color Contrast

Tap to adjust display color contrast and change the text color to maximize contrast with the background.



Auto-Rotate Screen

Enables/disables screen auto-rotation.

Screen Saver

Tap to select the screen saver, set the style and time (**When to start**).

System Update

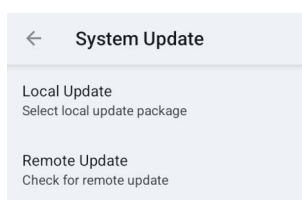
Local Update

The A/B system update ensures a workable booting system remains on the disk during an over-the-air (OTA) update. OTA updates can occur while the system is running, without interrupting the user. Users can continue to use their devices during an OTA, the only downtime during an update is when the device reboots into the updated disk partition.

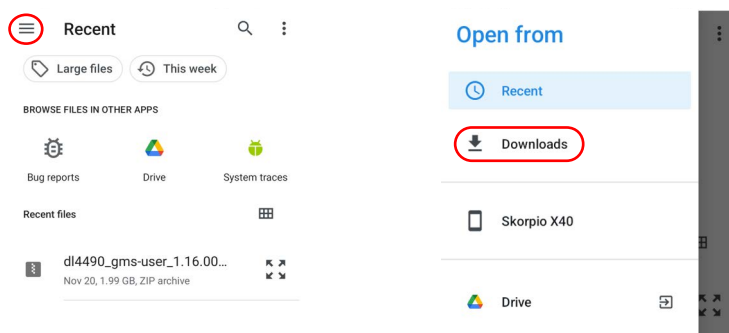
To transfer the OTA package from your PC to the Skorpio X40/45, follow the steps below:

1. Connect the device and the PC via USB cable (see "[USB Connection](#)" on page 57);
2. Copy the OTA package to the device **Download** folder;

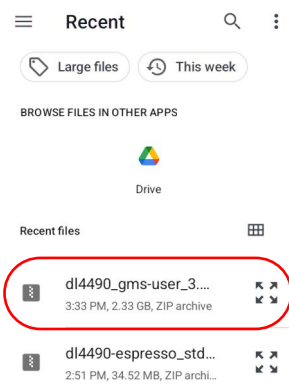
From the **Settings** menu, tap **System** > **System Update** > **Local Update**. è



Tap the menu icon on the top left corner of the screen and then tap **Downloads**.

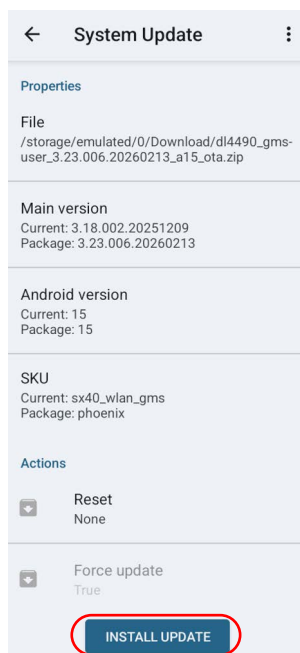


Select the update package you want to install.



NOTE: The OTA package would be also available if copied into another folder. You just need to select the right folder.

The following window displays on screen, showing information about the device and the update package components:

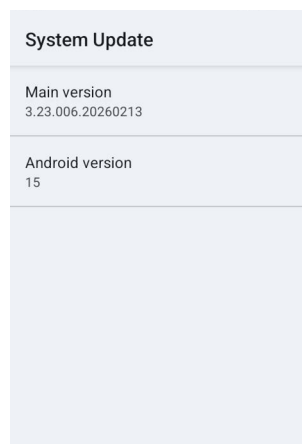
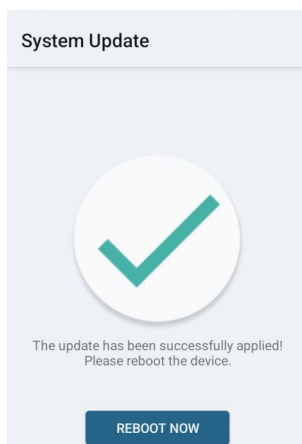


The **PROPERTIES** section shows information about the device model and OS version and the update package version.

The **ACTIONS** section allows to:

- reset the device configuration after the update (see "[Reset the Device](#)" on page 34).
- force the update of all components, including those already updated.

Tap **Install Update**. The device will reboot and a success notification will be displayed. Tap the notification to display a report showing the installed update components.



NOTE: During the update, ensure that:

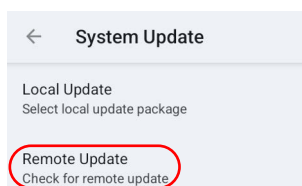
- battery level is more than 20% if the Skorpion X40/45 is not connected to a power source;

or

- battery level is more than 15% if the Skorpion X40/45 is connected to a power source (USB or dock).

Remote Update

From the **Settings** menu, tap **System** > **System Update** > **Remote Update**.



Tap **Check for update**.



Your system is up to date

Android version: 15

Android security update: February 5, 2026

Last successful check for update:
9:42 AM

Check for update

RECOVERY MODE

Recovery is an independent, runtime environment that's included on a separate bootable partition from the main Android OS. It contains tools to help repair your installations as well as install official OS updates by using a combination of key presses. Its main purpose is to reset the device, wipe data or perform system updates when the system crashes and the screen is unresponsive.

To enter Recovery Mode:

1. Turn off the Skorpion X40/45 (see "[Power Off](#)" on page 24).
2. Press and hold the Left Trigger
3. Press the Power key and release it as soon as the device vibrates while holding the Left Trigger.
4. The device turns on in Recovery Mode.
5. Use the up/down arrows buttons to navigate the menu. You can apply/force updates and perform a configuration reset. Press the power key to select.
6. Select **Reboot system now**. The device reboot is complete.



NOTE: In Recovery mode, you can only apply updates from external storage (see "[Local Update](#)" on page 46).

DATALOGIC UTILITIES

SOFTSPOT™

Datalogic's SoftSpot technology is a user-definable "floating soft trigger" meant to provide easy access to the barcode scanner application and other frequently used functionalities on mobile scanning devices.

For more details, visit the website: <https://datalogic.github.io/softspot/overview>.

BATTERY MANAGER

This application provides information about the battery features and status, allows to configure the battery charging profile and to log battery data.

For more details, visit the website: <https://datalogic.github.io/battery-manager/overview/>.

DATALOGIC WIFI GUARD

Datalogic WiFi Guard is an Android application designed to collect information on a Wi-Fi network. It also contains tools to assist in improving network performance and diagnosing connection problems. It comes pre-installed on the device and is not available for download.

For more details, visit the website: <https://datalogic.github.io/wifiguard/overview>.

DOCK MANAGER

This application provides information about the cradle you're currently using and the ability to enable/disable some of its properties.

For more details, visit the website: <https://datalogic.github.io/dock-manager/overview>.

DATALOGIC LOGGER

Datalogic Logger is an Android application designed to collect information logged by various software components to assist in diagnosing issues. Once started, it runs in the background with minimal impact to device performance. When complete, an archive of the results is generated, which can be exported from the device for further study. It comes pre-installed on the device and is not available for download.

For more details, visit the website: <https://datalogic.github.io/logger/overview>.

ALADDIN FOR CODISCAN

Aladdin is a mobile application designed to run on android platforms that allows users to pair and access various features and settings of a CODiScan scanner. Aladdin interacts with the CODiScan via BLE protocol. The application uses this communication approach to configure and receive scan data from the CODiScan scanner.

For more details, visit the website: <https://datalogic.github.io/aladdin/overview>.

DATALOGIC TOOLS

Refer to the Datalogic Mobile Computers Software Tools main page to find more detailed and up-to-date information: <https://datalogic.github.io/>.



USB ADB DRIVER

USB connection allows to read and write files on both the internal storage memory and the external storage memory, but doesn't allow to install applications.

Android Debug Bridge (ADB) is a command-line utility included with Google's Android SDK and you can use it to control your device over USB from a computer, copy files back and forth, install and uninstall apps and run shell commands.

SDK ADD-ON

SDK add-on is a library which extends the Android SDK and development tools.

For more information and instructions to install SDK Add-on, Android™ Studio and Android SDK, visit the website <https://datalogic.github.io/android/overview>.

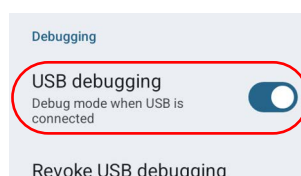
Install ADB Driver

1. Download and install the Google USB Driver (see <https://developer.android.com> for further information).



NOTE: Before installing the Google USB Driver, ensure you have installed the Datalogic plug-in.

2. In order to use ADB with your device connected over USB, you must enable USB debugging in the device system settings. To enable Android **Developer options**, go to **Settings > About phone** and tap on the **Build Number** section 7 times. After the 7th tap, the Developer options will be unlocked and available. Go back to **Settings > System** and tap **Developer options**. Enable **USB debugging**:



Create a New Application based on Datalogic SDK Add-on with Android Studio

For information and instructions to configure Datalogic SDK Add-on in Android Studio, refer to the website: <https://datalogic.github.io/android/overview>.

DATALOGIC SDK

For information on the Datalogic SDK APIs, visit the web site: <https://datalogic.github.io/android/overview>.

DATALOGIC OEMCONFIG

OEMConfig is a new Android standard that enables device manufacturers to create custom device features that can be immediately and universally supported by enterprise mobility management (EMM platforms). Instead of integrating enterprise APIs from each OEM to support their custom features such as control of barcode scanners or enabling extra security features, EMMs can easily use an OEM-built application that configures all of the unique capabilities of a device.

OEMConfig utilizes a feature in Android Enterprise called managed configurations, which allows developers to provide built-in support for the configuration of apps. With OEMConfig, EMMs can support all of a device manufacturer's diverse set of controls without any incremental development work on their end.

For more details, visit the website: <https://datalogic.github.io/oemconfig>.

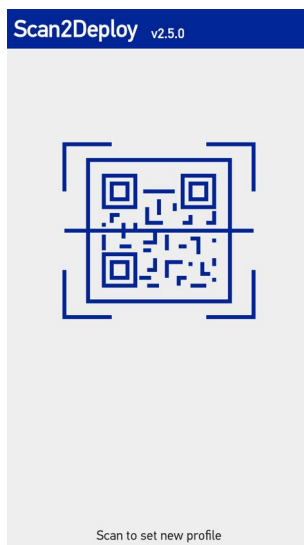
WI-FI QR CODE GENERATOR

Allows to generate a QR code that will automatically connect your device to a Wi-Fi network when scanned.

For more details, visit the website: <https://datalogic.github.io/wifiqr>.

SCAN2DEPLOY

Scan2Deploy is a configuration tool that uses special barcode labels.



For more details, visit the website: <https://datalogic.github.io/scan2deploy>.

DATALOGIC LAUNCHER

Datalogic Launcher is an Android application used to lock down the device to launch only allowed applications. It can also limit access to several system device features, such as the Overview button (for switching apps) and the Global Actions dialog (for restarting the device). Once started, it behaves as the device Home screen (when you tap the Home button).

For more details, visit the website: <https://datalogic.github.io/launcher/overview>.

DATALOGIC ENTERPRISE BROWSER

Datalogic Enterprise Browser is an Android application used for web browsing to only allowed websites. It also includes a JavaScript interface which exposes access to the barcode scanner. These features combine to allow the device to run web-based applications which need to access the scanner in a safe, controlled environment.

For more details, visit the website: <https://datalogic.github.io/browser/overview>.

DATA CAPTURE

The Skorpion X40/45 embeds the Datalogic Halogen™ DE2121-DL and DE2121-ER scan engines.

See [Scanner & Decoder](#) for instructions on configuring the scanner settings.

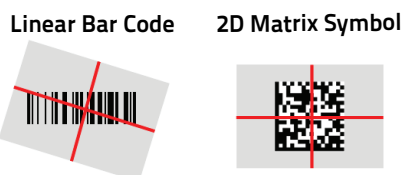
Models with Halogen DE2121-DL

To scan a barcode symbol:

1. Point the scan window at the barcode from a distance within the reading range.
2. Press one of the scan triggers. The imager projects a red laser aiming cross that is used to position the barcode within the field of view.



3. Center the symbol in any orientation within the aiming pattern.



If the scan has been successful:

- If enabled, the good read beep plays.
- If enabled, the GreenSpot projects a green spot onto the barcode image.
- If enabled, the notification LED glows solid green.

Models with Halogen DE2121-ER

To scan a bar code symbol:

1. Point the scan window at the bar code.
2. Press one of the scan triggers. A red spot illuminates the symbol, which is captured and decoded.



If the scan has been successful:

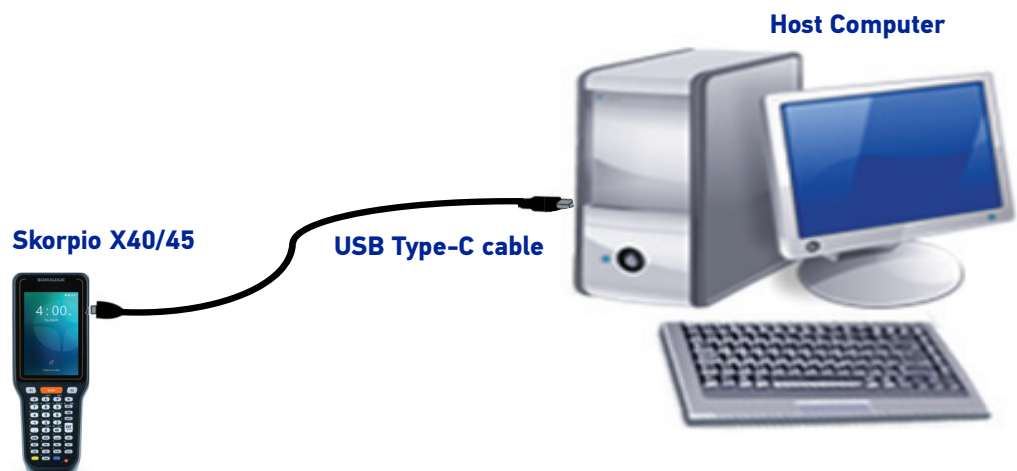
- If enabled, the good read beep plays.
- If enabled, the GreenSpot projects a green spot onto the bar code image.
- If enabled, the notification LED glows solid green.

CONNECTIONS

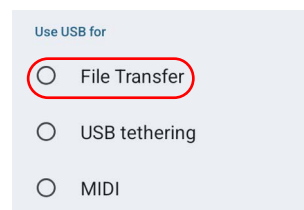
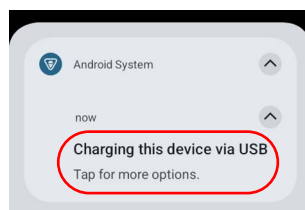
USB CONNECTION

USB Direct Connection

You can use a standard USB Type-C cable (not included in the box) to directly connect the Skorpion X40/45 to a host computer and transfer data through the USB interface.



1. Turn on the Skorpion X40/45.
2. Turn on the host computer.
3. Connect the device to the host PC via USB cable.
4. Scroll down the notification bar, tap the charging notification and change to **File Transfer**.



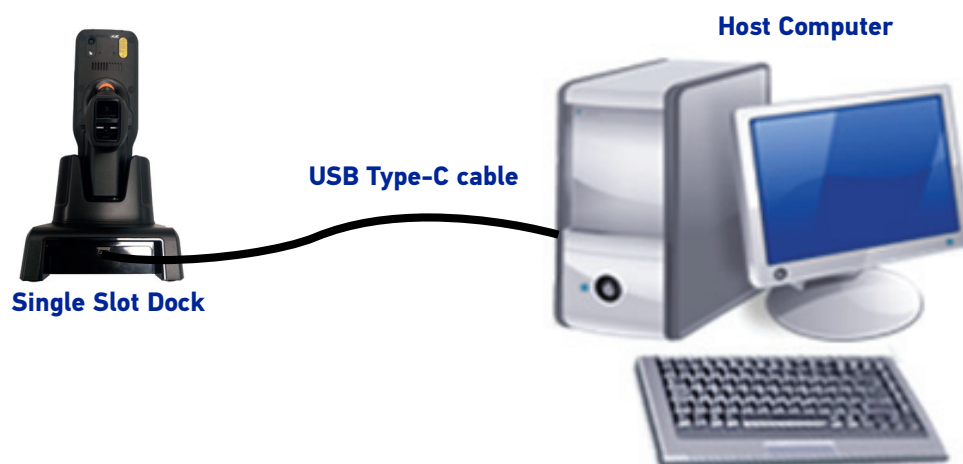
5. The device is now visible in your PC as a USB disk. You can start the data transfer.



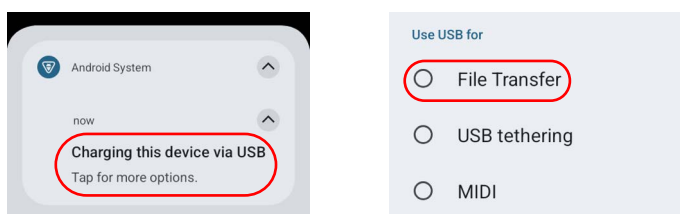
NOTE: Connection through the cable complies to USB Type-C standard.

USB Dock Connection

You can use a standard USB Type-C cable (not included in the box) to directly connect the dock to a host computer and transfer data through the USB interface.



1. Turn on the host computer.
2. Connect the dock to the host computer by means of a standard USB type-C cable.
3. Turn on the Skorpion X40/45.
4. Insert the Skorpion X40/45 into the dock.
5. Scroll down the notification bar, tap the charging notification and change to **File Transfer**.



6. The device is now visible in your PC as a USB disk. You can start the data transfer.



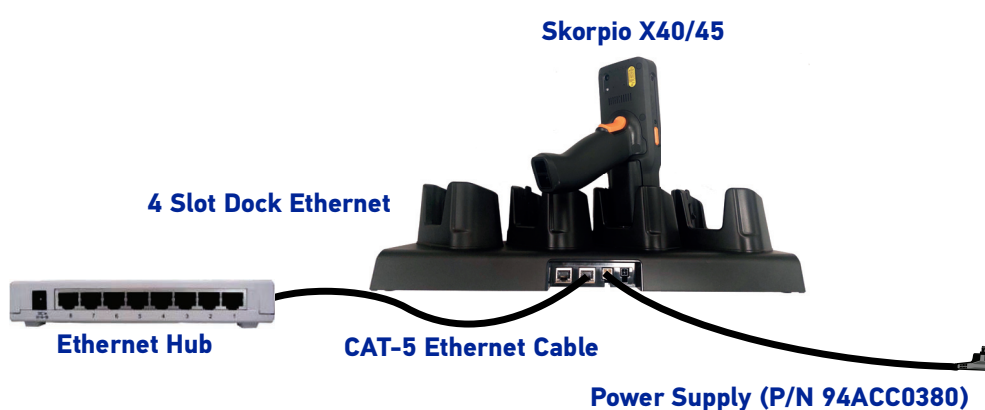
NOTE: When the device is inserted into the dock, all ongoing USB connections shall be kept until the corresponding port is unplugged.

ETHERNET CONNECTION

Use the 4-Slot Charging/Communication Dock (available as an accessory, p/n 94A150144) to build a reading system for the collection, decoding and transmission of barcoded data.

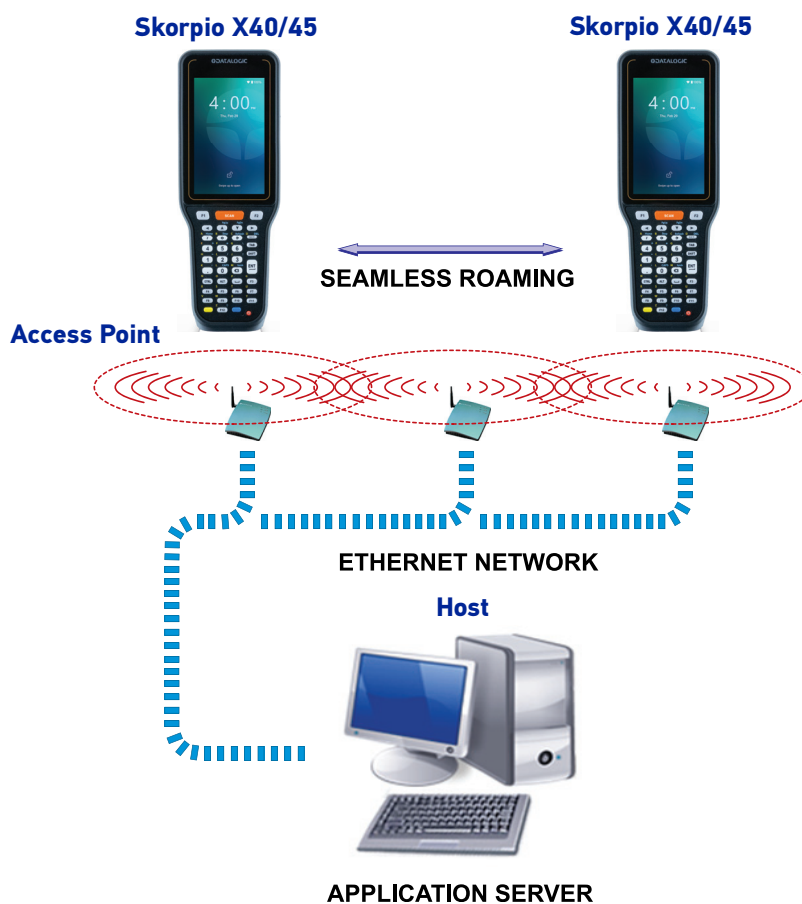
Ethernet Dock Connection

1. Connect the dock to the power supply (available as an accessory, p/n 94ACC0380).
2. Plug a CAT-5 ethernet cable into the ethernet port on the back of the dock.
3. Plug the ethernet cable into the ethernet hub or a port on the host device.
4. Insert the Skorpion X40/45 into the dock.



WI-FI CONNECTION

The Skorpio X40/45 has a Wi-Fi 6e WLAN (Wireless Local Area Network) radio and can communicate with other Wi-Fi compliant products including access points, workstations via PC card adapters and other wireless portable devices.



NOTE: Area coverage and radio performance may vary, due to environmental conditions, access point types or interference caused by other devices (microwave ovens, radio transmitters, etc.).

WWAN CONNECTION

The Skorpio X45 enhances your connectivity solutions giving you an opening to an international wireless infrastructure that is the global standard. It is optimized for the following two-way communications:

- Voice: voice data (including VoLTE, VoNR and Wi-Fi calling)
- Data: Available speed depends on the wireless network carrier and their supported packet-data technology in addition to network conditions.

The Skorpio X45 supports the following 3G bands:

- B1/2/4/5/6/8/19;

The Skorpio X45 supports the following LTE bands:

- FDD_LTE: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/29/30/66/71;
- TDD_LTE: B34/38/39/40/41/42/43/48;

The Skorpio X45 supports the following 5G bands:

- 1/2/3/5/7/8/12/13/20/25/26/28/29/30/38/40/41/48/66/71/77/78/79.

Private networks supported.



In order to use a WWAN Connection you have to install a SIM Card (See "Getting Started" on page 22).



NOTE: Area coverage and cellular performance may vary, due to environmental conditions, tower/ base station types or interference caused by other devices (microwave ovens, radio transmitters, etc.).

BLUETOOTH® SERIAL CONNECTION

The Skorpion X40/45 can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.



NOTE: In order to extend battery life, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on (see “Bluetooth Settings” on page 41).

Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.).

NEAR FIELD COMMUNICATION (NFC)

NFC technology allows short-range, wireless data transfer between the terminal and NFC tags or other NFC enabled devices placed in close proximity to the back of the terminal.

Skorpio X40/45 support the following modes of operation:

- NFC tag reader/writer mode: the terminal reads and/or writes digital information from or to an NFC tag.
- NFC card emulation mode - The terminal emulates an NFC card (smart card) that an external card reader can access.

Read NFC Tags

1. Make sure NFC is enabled (see "[NFC](#)" on [page 43](#)).
2. Hold the NFC tag close to the back of the terminal.
3. When an NFC tag is recognized, the terminal emits a sound and the tag data displays on the terminal screen.



NOTE: Suspend mode and the screen lock temporarily turns the NFC radio off.

WIRELESS AND RADIO FREQUENCIES WARNINGS



WARNING; Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Skorpion X40/45.

Datalogic recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile computers.

Persons with pacemakers:

- Should **ALWAYS** keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;
- Should not carry this device in a breast pocket;
- Should keep the device at the opposite side of the pacemaker and/or any other medical device;
- Should turn this device **OFF** or move it immediately **AWAY** if there is any reason to suspect that interference is taking place.
- Should **ALWAYS** read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.

In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor.

Turn this device **OFF** in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. **DO NOT** place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or fuel distribution areas, chemical plants or where any operation involves use of explosive materials.

Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked or shown.

Sparks in such areas could cause an explosion or fire, resulting in injury or even death.

TECHNICAL FEATURES

TECHNICAL DATA

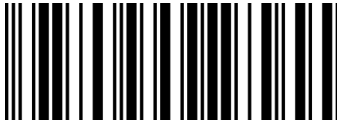
ITEM	DESCRIPTION
PHYSICAL CHARACTERISTICS	
Dimensions	Handheld: 210 x 75 x 27 mm / 8.27 x 2.95 x 1.06 in Pistol Grip: 210 x 75 x 155 mm / 8.27 x 2.95 x 6.10 in
Weight	Handheld: with battery: 445 g / 15.7 oz Pistol Grip: with battery 575 g / 20.3 oz
Primary Display	4.0-inch LCD A-Si IPS - WVGA 480 x 800 resolution; LED backlight and integrated touch screen; 450 NITS typical
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel with hardened Gorilla Glass and optical bonding; Support for gloves and stylus; water drops rejection and anti-fingerprint surface finishing
Keyboard	Physical Keyboards: 29-key Numeric; 39-key Functional Numeric; 48-key Alphanumeric; Physical Keys: 2 side scan keys; Power On/Off Software keys: 3 Android soft keys
ELECTRICAL	
Battery	Removable extended battery pack with rechargeable Li-Ion batteries; MicroUSB type-C for fast battery charging. 3.63 V; Rated 7,000 mAh typical (25.445 Watt-hours); Hot Swap for application data protection
Wireless Charging	WPC Qi EPP compatible; 10W charging
INTERFACES	
Interfaces	High Speed USB 3.2 gen1 Host and Client (Type-C); Super Speed USB 2.0 (Type-C, Bottom I/O); Gigabit Ethernet connectivity (via multi-slot dock)

ITEM	DESCRIPTION
ENVIRONMENTAL	
Drop Resistance	Multiple 2.4m/8ft drops to concrete at ambient temperature per MIL STD 810H; Multiple 1.8m/6ft drops to concrete over operating temp (-20°C to 50°C/-4°F to 122°F) per MIL STD 810H
Tumbles	3000 1.0m/3.3 ft tumbles at room temperature, meets and exceed IEC 60068-2-32 Procedure 2 specification;
Particulate and Water Sealing	IP65 and IP67 with battery, per IEC60529 specification
Chemical Resistance	Chemical cleanser and industrial oil resistant: Water solution of Sodium Hypochlorite 0,8%; Windex Multi-surface / Glassex with ammonia; Formula 409, Glass and Surface cleaner / Glassex with ammonia; Ethyl alcohol 70%; Isopropyl alcohol 70%; Hydrogen peroxide 3%
Temperature	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -30 to 70 °C / -22 to 158 °F
ESD	15kV air discharge / 8kV contact discharge
SYSTEM	
SIM Slots	1 Nano SIM; 1 eSIM (Skorpio X45 only)
Expansion Slots	1 MicroSD card (up to 2 TB)
Memory	System RAM: 6 GB; UFS Flash: 128 GB
Microprocessor	Qualcomm QcX4490 Octa-core 2.4 GHz
Operating System	Android v15 GMS and AOSP (platform upgradeable to Android 19)
Real-Time Clock	Time and date stamping under software control
AUDIO	
Microphones	2 mics, with noise cancellation
Loudspeaker	Speaker for handsfree calls and audio application
READING PERFORMANCE	
Camera	Rear Camera: 13-megapixel resolution; Auto focus Illumination: user controllable LED flash (torch mode)
Scan Engine	Halogen™ DE2121-DL 1D/2D scan engine; Halogen™ DE2121-ER Extended Range 1D/2D scan engine; Datalogic's 'Green Spot' for good-read feedback on all scan engines

ITEM	DESCRIPTION
WIRELESS COMMUNICATIONS	
Local Area Network (WLAN)	Wi-Fi 6/6E IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/h/i/k/r/v/w/mc; Frequency range: Country dependent, typically 2.4 GHz, 5 GHz and 6 GHz bands; 2 x 2 MU-MIMO; WPA3 Enterprise 192-bit mode supported
Personal Area Network (WPAN)	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE)
NFC Communication	Support for the following standards: Tag types 2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica) Reader and Card emulator.
WWAN/Cellular (Skorpio X45 only)	3G/UMTS/HSPA+; LTE-Advanced / 4G+; NR 5G FR1; 3GPP Rel.16; Data only; Global Configuration: WCDMA: B1/2/4/5/6/8/19; FDD_LTE: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/29/30/66/71; TDD_LTE: B34/38/39/40/41/42/43/48; 5G: n1/2/3/5/7/8/12/13/20/25/26/28/29/30/38/40/41/48/66/71/77/78/79; Private networks and CBRS support (4G and 5G)
Global Positioning System (GPS - Skorpio X45 only)	Supported Types: GPS, Galileo, GLONASS, BeiDou Integrated Assisted-GPS (A-GPS) Dual band GNSS: L1 + L5
SAFETY & REGULATORY	
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use
Environmental Compliance	Complies to EU RoHS
Laser Classification	VLD - Class 2 IEC/EN60825-1; Compliant with 21 CFR 1040.10 except for deviations pursuant to laser notice No. 50 dated June 24, 2007
LED Classification	Exempt Risk Group IEC/EN62471
SENSORS	
Vibration	Software programmable for duration and intensity
Accelerometer	3-Axis accelerometer to detect orientation
Gyroscope	Senses angular velocity
Ambient Light	Auto adjusts display backlight
Proximity	Auto deactivates display when close to face
Magnetometer	E-compass for direction and orientation detection
Barometer	Atmospheric pressure / Z-location (Skorpio X45 only)

ITEM	DESCRIPTION
SOFTWARE	
Datalogic Mobility Suite - Discover more on: datalogic.github.io	
Protection	Shield - Android Security Updates; Launcher - to lockdown device to kiosk mode; Enterprise Browser – for secure browsing; Integrity KIT - to safeguard HW interfaces.
Configuration	Scan2Deploy - configure, stage and enroll device; OEMConfig - for UEM/EMM compatibility; AE QR Generator - for easy EMM/UEM enrollment; Wi-Fi QR Generator – Enroll device with Wi-Fi network
Development	SDKs (Java, Kotlin, Xamarin, .NET MAUI JavaScript); Visual Formatter – visually code flow for barcode formatting; Wedge – a configurable bar code scanning input method
Optimization	Logger - collect advanced device events log; Wi-Fi Guard - collect Wi-Fi data and statistics; Battery Manager – collect battery usage data and optimize power, including Enterprise Battery Saver - optimize battery consumption by tailoring device behavior to contextual triggers, and Smart Charge - extend battery life by syncing device charge schedule to your operations; Snap OCR - digitizes text, streamlining data entry label parsing. Pocket Mode - prevents mis-operation of the touch screen while the device is in your pocket
Empower	SoftSpot - draggable touch scanner trigger; QuickBoard – customizable on-screen virtual keyboard
Additional Features	
Provisioning	Android Zero-Touch, Android Enterprise QR Code, NFC Bump, EMM Token, DPC Identifier enrollment
UEM/EMM	SOTI MobiControl, VMWare Workspace One, Microsoft Intune, 42Gears Sure MDM, Ivanti Neurons, Ivanti and any OEM Config compliant UEM/EMM, Terminal Emulator and PTT; Compatibility Highlight Ivanti Velocity, StayLinked Smart TE, Zello PTT
Datalogic Connect	The next-generation IoT cloud platform that empowers organizations to remotely control, manage, and gain actionable insights from all their deployed Datalogic devices
WARRANTY	
Warranty	1-Year Factory Warranty

TEST CODES

High Density Codes - 0.25 mm (10 mils)	
Code 39	 17162
Interleaved 2/5	 0123456784
Code 128	 test
80% EAN 13	 8 012345 000012
80% EAN 8	 6450 9723

Medium Density Codes - 0.38 mm (15 mils)	
Code 39	 17162
Interleaved 2/5	 0123456784
Code 128	 test
100%	
EAN 13	 8 012345 000012
100%	
EAN 8	 6450 9723

Low Density Codes - 0.50 mm (20 mils)	
Code 39	 17162
Interleaved 2/5	 0123456784
Code 128	 test
120% EAN 13	 8 012345 000012
120% EAN 8	 6450 9723

2D Codes
Datamatrix ECC200  Example
Inverse Datamatrix ECC200  Example

MAINTENANCE

CLEANING

Periodically clean the Skorpion X40/45 using a soft cloth slightly dampened with only water or Isopropyl Alcohol (70%). Do not use any other cleaning agents (e.g. different alcohol, abrasive or corrosive products, solvents) or abrasive pads to clean the device.

Do not spray or pour liquids directly onto the device.

ERGONOMIC RECOMMENDATIONS



CAUTION: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

SAFETY AND REGULATORY INFORMATION



NOTE: Read carefully the Skorpion X40/45 User Manual before performing any type of connection to the Skorpion X40/45.

The user is responsible for any damage caused by incorrect use of the equipment or by inobservance of the indication supplied in the user manual.

GENERAL SAFETY RULES

- Before using the device and the battery pack, read carefully the chapter "Battery" on page 12.
- Use only the components and accessories supplied by the manufacturer for the specific Skorpion X40/45 being used.
- Do not attempt to disassemble the Skorpion X40/45 PDA, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the Skorpion X40/45 PDA, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Do not submerge the Skorpion X40/45 in liquid products.
- For further information or support, refer to this manual and to the Datalogic web site: www.datalogic.com.



NOTE: See the Safety & Regulatory Addendum included with your product for additional regulatory, safety and legal information.

TECHNICAL SUPPORT

SUPPORT THROUGH THE WEBSITE

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application software, and computer systems and can provide individualized assistance.

REFERENCE DOCUMENTATION

For further information regarding Skorpion X40/45 refer to the SDK Help on-line and to the Skorpion X40/45 User's Manual, downloadable from our developer portal: <https://developer.datalogic.com/mobile-computers>.

WARRANTY TERMS AND CONDITIONS

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GLOSSARY

Access Point

A device that provides transparent access between Ethernet wired networks and IEEE 802.11 interoperable radio-equipped mobile units. Hand-held mobile computers, PDAs or other devices equipped with radio cards, communicate with wired networks using Access Points (AP). The mobile unit (mobile computer) may roam among the APs in the same subnet while maintaining a continuous, seamless connection to the wired network.

ASCII

American Standard Code for Information Interchange. A 7 bit-plus-parity code representing 128 letters, numerals, punctuation marks and control characters. It is a standard data transmission code in the U.S.

Barcode

A pattern of variable-width bars and spaces which represents numeric or alphanumeric data in binary form. The general format of a barcode symbol consists of a leading margin, start character, data or message character, check character (if any), stop character, and trailing margin. Within this framework, each recognizable symbology uses its own unique format.

Bit

Binary digit. One bit is the basic unit of binary information. Generally, eight consecutive bits compose one byte of data. The pattern of 0 and 1 values within the byte determines its meaning.

Bluetooth®

A standard radio technology using a proprietary protocol, targeted for short-range and low-power communication networks.

Boot

The process a computer goes through when it starts. During boot, the computer can run self-diagnostic tests and configure hardware and software.

Byte

On an addressable boundary, eight adjacent binary digits (0 and 1) combined in a pattern to represent a specific character or numeric value. Bits are numbered from the right, 0 through 7, with bit 0 the low-order bit. One byte in memory can be used to store one ASCII character.

Character

A pattern of bars and spaces which either directly represents data or indicates a control function, such as a number, letter, punctuation mark, or communications control contained in a message.

Decode

To recognize a barcode symbology (e.g., Codabar, Code 128, Code 3 of 9, UPC/EAN, etc.) and convert the content of the barcode scanned from a visual pattern into electronic data.

Depth of Field (DOF)

The portion of a scene that appears acceptably sharp in the image. Although a lens can precisely focus at only one distance, the decrease in sharpness is gradual on each side of the focused distance, so that within the DOF, the unsharpness is imperceptible under normal viewing conditions.

Dock

A dock is used for charging the terminal battery and for communicating with a host computer, and provides a storage place for the terminal when not in use.

Ethernet

The standard local area network (LAN) access method. A reference to "LAN", "LAN connection" or "network card" automatically implies Ethernet. Defined by the IEEE as the 802.3 standard, Ethernet is used to connect computers in a company or home network as well as to connect a single computer to a cable modem or DSL modem for Internet access.

Firmware

A software program or set of instructions programmed on a hardware device. It provides the necessary instructions for how the device communicates with the other computer hardware. Firmware is typically stored in the flash ROM of a hardware device. While ROM is "read-only memory," flash ROM can be erased and rewritten because it is actually a type of flash memory.

Flash Memory

Non-volatile memory for storing application and configuration files.

GSM

Global System for Mobile communication. It is a standard for digital cellular communications, currently used around the world on as many as seven bands.

Host

A computer that serves other mobile computers in a network, providing services such as network control, database access, special programs, supervisory programs, or programming languages.

IEC

International Electrotechnical Commission. This international agency regulates laser safety by specifying various laser operation classes based on power output during operation.

IEEE 802.11

A set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, 3.6, 5 and 6 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

LAN

Local area network. A wireless or wired network that supports data communication within a local area, such as within a warehouse or building.

Laser

Light Amplification by Stimulated Emission of Radiation. The laser is an intense light source. Light from a laser is all the same frequency, unlike the output of an incandescent bulb. Laser light is typically coherent and has a high energy density.

Light Emitting Diode (LED)

A low power electronic light source commonly used as an indicator light. It uses less power than an incandescent light bulb but more than a Liquid Crystal Display (LCD).

Liquid Crystal Display (LCD)

A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to let the backlight illumination pass through them according to their bias. They use little electricity and react relatively quickly.

MIL

1 mil = 1 thousandth of an inch.

Pairing

A Bluetooth® pairing occurs when two Bluetooth® devices agree to communicate with each other and establish a connection.

RAM

Random Access memory. Data in RAM can be accessed in random order, and quickly written and read.

Resolution

The narrowest element dimension which is distinguished by a particular reading device or printed with a particular device or method.

Scanner

An electronic device used to scan barcode symbols and produce a digitized pattern that corresponds to the bars and spaces of the symbol. Its three main components are:

- Light source (laser or photoelectric cell) - illuminates a barcode.
- Photodetector - registers the difference in reflected light (more light reflected from spaces).
- Signal conditioning circuit - transforms optical detector output into a digitized bar pattern.

SDK

Software Development Kit.

Symbol

A scannable unit that encodes data within the conventions of a certain symbology, usually including start/stop characters, quiet zones, data characters and check characters.

Symbology

The structural rules and conventions for representing data within a particular barcode type (e.g. UPC/EAN, Code 39, PDF417, etc.).

USB

Universal Serial Bus. Type of serial bus that allows peripheral devices (disks, modems, printers, digitizers, data gloves, etc.) to be easily connected to a computer. A "plug-and-play" interface, it allows a device to be added without an adapter card and without rebooting the computer (the latter is known as hot-plugging).

WLAN

A Wireless Local Area Network links devices via a wireless distribution method (typically spread-spectrum or OFDM radio), and usually provides a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network.

WPAN

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters - in other words, a very short range.

WWAN

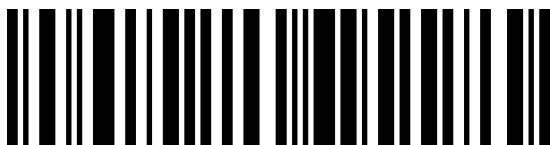
Stands for "Wide Area Network." It is similar to a Local Area Network (LAN), but it is not limited to a single location and it uses Mobile telecommunication cellular network technologies such as UMTS, GPRS, CDMA2000, GSM, CDPD, Mobitex, HSDPA or 3G to transfer data. WWAN connectivity allows a user with a laptop and a WWAN card to surf the web, check email, or connect to a Virtual Private Network (VPN) from anywhere within the regional boundaries of cellular service.

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Datalogic S.r.l.

Via S. Vitalino, 13 | 40012 Calderara di Reno | Bologna - Italy
Tel. +39 051 3147011 | Fax +39 051 3147205



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