



CIPHER LAB RK25 Rugged Mobile Computer Instructions

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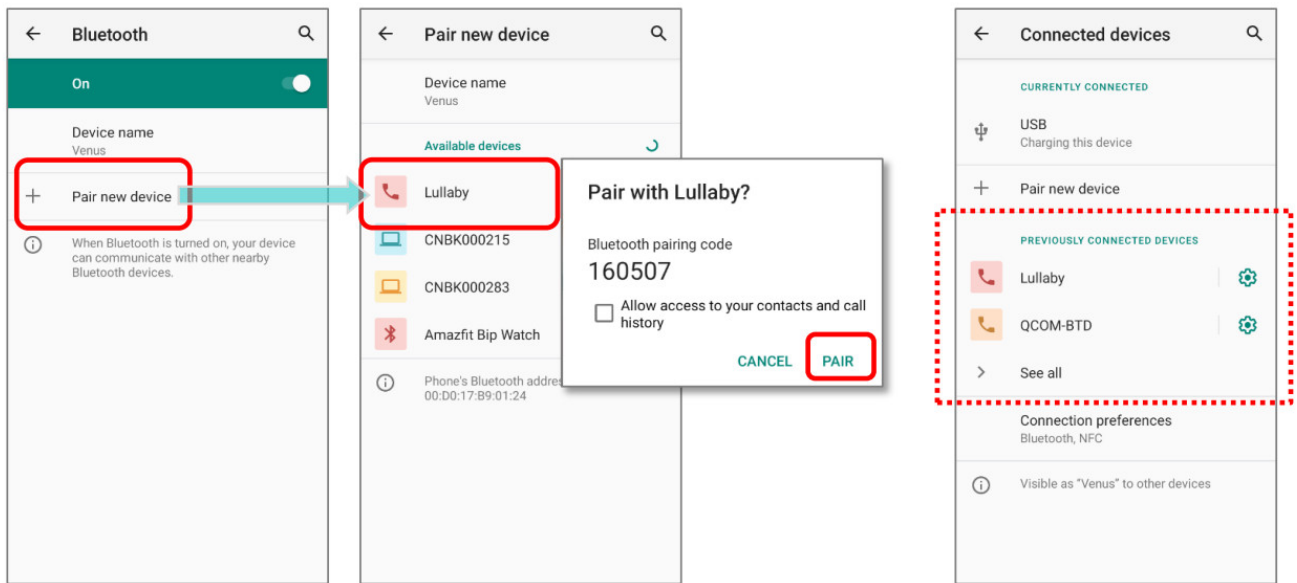
LAB RK25 Rugged Mobile Computer Instruction Manual

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PAIR BLUETOOTH DEVICES

1. Go to App Drawer | **Settings**  | **Connected devices**  | **Connection preferences** | **Bluetooth** . Tap the switch to On to scan for available Bluetooth devices nearby. Scroll through the list and tap the device you would like to pair.
2. The Bluetooth pairing request window opens. Depending on the pairing settings of the Bluetooth device, you may need to enter a passkey or confirm the assigned passkey on the device to pair if a smart pairing method is applied. Enter/confirm the passkey on the device to pair.
3. Once pairing is done, you can find the Bluetooth device in App Drawer | Settings | Connected devices | Previously connected devices.




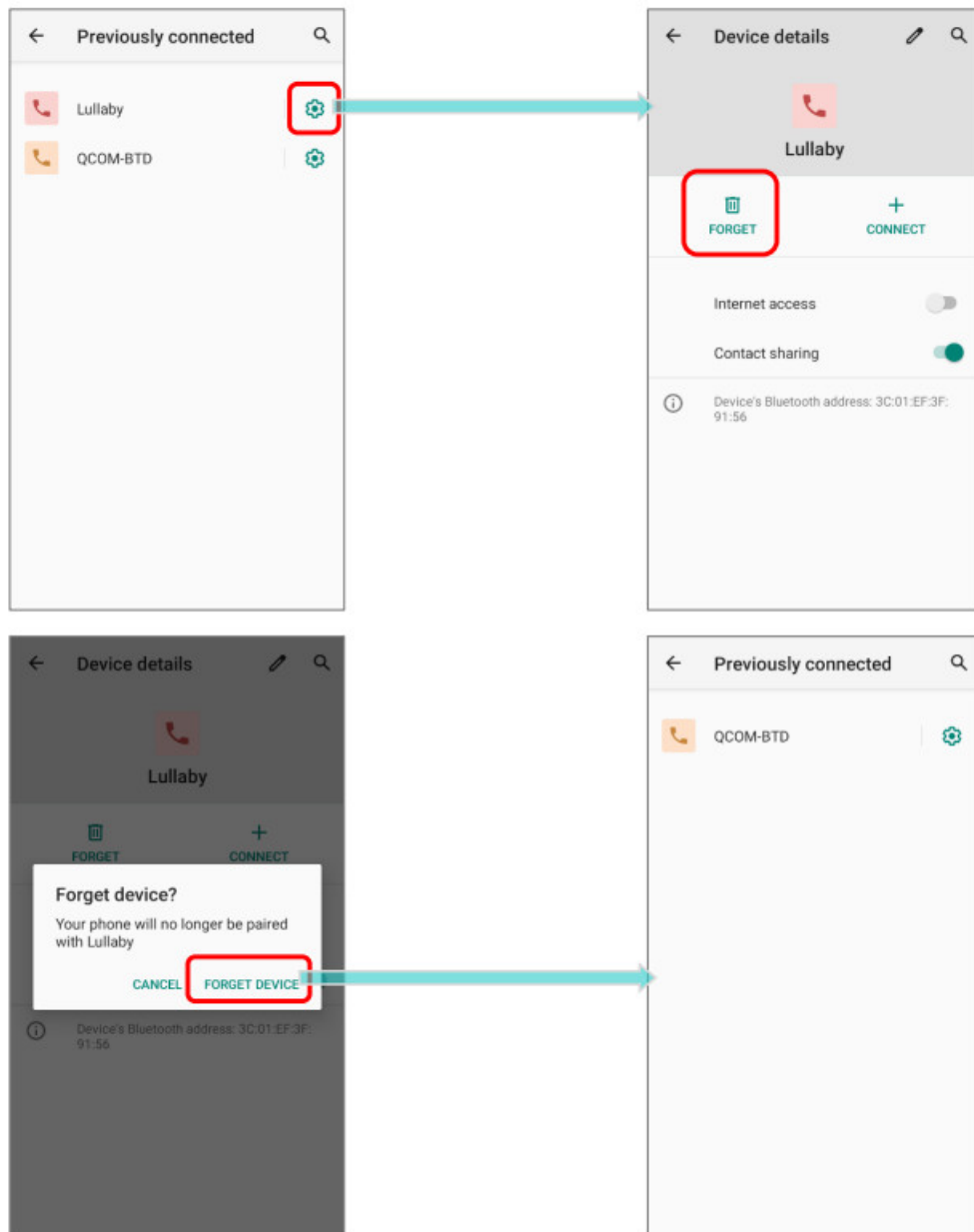
Note:

If the device you would like to pair with is not listed, make sure Bluetooth visibility is enabled on the device.

UNPAIR BLUETOOTH DEVICE

To unpair a paired device:




1. In the Previously connected devices list, tap the settings button  next to the paired device.
2. On the Device Details screen, tap FORGET.

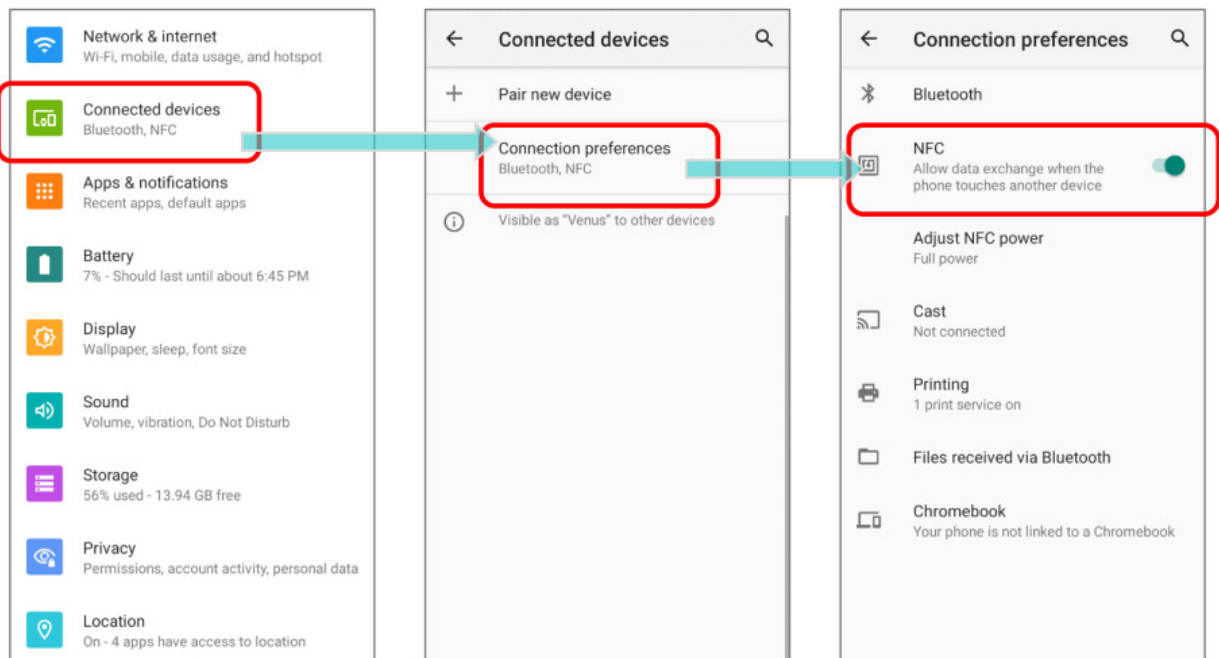


USE NEAR-FIELD COMMUNICATIONS

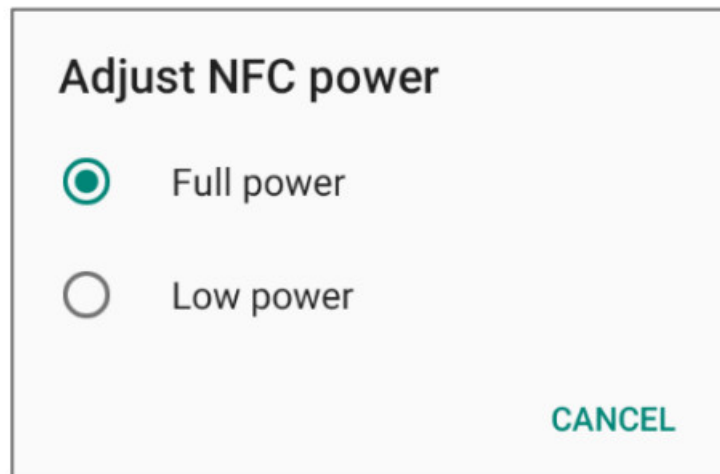
Near field communications (NFC) uses close proximity (4 cm or less) to establish radio communication through electromagnetic fields. With NFC enabled, the mobile computer can collect information from NFC tags, exchange information with other NFC-supported devices, and even change information on the NFC tag if authorized.

Before starting to communicate through NFC, perform the following:

1. Go to App Drawer (All Application) | Settings  | Connected devices  | Connection preferences.
2. On the "Connection preferences" page, tap to switch on "NFC" .



You can tap on “Adjust NFC power” to select the NFC power between “Full power” and “Low power”.



PAIR WITH NFC-ENABLED BLUETOOTH DEVICES

1. On the device, you would like to pair with, make sure NFC is enabled and Bluetooth discovery is enabled.
2. Hold the mobile computer without covering the antenna area.



3. Move the mobile computer in proximity to the device for pairing. A screen notification will appear to indicate that the pairing is successful.

COMMUNICATION WITH NFC

1. On the mobile computer, launch an NFC-enabled application.
2. Hold the mobile computer without covering the antenna area.
3. Place the mobile computer close to the NFC tag or device until the application indicates data transfer is complete.

SPECIFICATIONS

PLATFORM, PROCESSOR & MEMORY

Operating System & CPU	
OS Version	Android 10 with CTS and GMS Certified
CPU	Qualcomm SDM450 Octa-core 1.8GHz
Memory	
ROM	32GB eMMC (MLC)
RAM	3GB LPDDR3
Expansion Slot	One Micro SDHC card slot (up to 32GB) SDXC supported (up to 64GB-2TB) Micro SIM socket x2, Micro SAM socketx1

COMMUNICATION & DATA CAPTURE

Communication	
USB Client	USB Type-C 2.0 OTG and charging contact
WPA N	Bluetooth® Class II, V4.1 BLE, V2.1 with Enhanced Data Rate (EDR)
WLAN	IEEE 802.11 a/b/g/n/ac
WWAN	(2G) GSM: 850/900/1800/1900 (3G) UMTS/HSPA/HSPA+: B1(2100), B2(1900), B4(1700), B5(850), B6(850), B8(900) (4G) FDD LTE: B1(2100), B2(1900), B3(1800), B4(1700), B5(850), B7(2600), B8(900), B12(700), B13(700), B17(700), B19(800), B20(800), B25(1900), B26(850), B28(700) (4G) TDD-LTE: Band38, Band39, Band40, Band41(2545MHz~2655MHz)
GPS	Built-in GPS, GLONASS, BeiDou, AGPS, Galileo
Data & Image Capture	
Digital Camera	Autofocus 13 megapixels with LED flash
Barcode Reader	Laser / 2D imager
HFR FID Reader	Support Card emulation, Card reader, and P2P modes of operation; support ISO14443 Type A & B, ISO15693, and Felica NFC area should be located on the top-side

ELECTRICAL CHARACTERISTICS

Battery	
Main Battery Pack	Rechargeable Li-polymer battery: 3.8V, 4020mAh Charging temperature: 0-40 °C Minimum charging time: 4 hours @25 °C For the first time charging the main battery, please charge it for at least 8 to 12 hours. The allowed battery charging ambient temperature is between 0 to 40. It is recommended to charge the battery at room temperature (18 to 25) for optimal performance. Please note that battery charging stops when the ambient temperature drops below 0 or exceeds 40 °C.
Backup Battery	Rechargeable Li-Polymer battery: 3.7V, 100mAh Charging time: 4 hours (under the condition that it is always be charged except of power off and no external power)
RTC Battery	Rechargeable SMT type Li-battery: 3V, 1mAh Charging time: 12 hours (always be charged) RTC retention will be maintained for at least 72 hours when the main battery is removed.

Power Adaptor		
Power Supply Cord with	Input	AC 100~240 V, 50/60 Hz
Universal Power Adaptor	Output	DC 5V, 2A BSMI, CCC, FCC, CE, RCM, PSE, PSB
Working Time		
Supports working time for up to 12 hours (laser)/ 10 hours (2D imager) at 25 degrees		

PHYSICAL CHARACTERISTICS

Color Touch Screen Display	
Display	5.45 inch, Transmissive IPS LCD, sunlight visibility, Corning® Gorilla® Glass 3
Resolution	720 X 1440 Pixel
Notifications	
Status LED	2 LEDs include one bi-color (green & red) LED for power indications, and one tri-color (blue, green, & red) LED for reader and system notification.
Audio	Speaker, dual array microphones with echo and noise cancellation Bluetooth headset support, Hands-Free Profile (HFP) 1.6 specification with Wideband speech. AMR-WB HD-voice support HAC support
Dimensions & Weight	
Dimensions	165mm(L) x 76.8mm(W) x 17.9mm(T)
Weight	275g (2D imager with battery) ± 5g

ENVIRONMENTAL CHARACTERISTICS

Temperature	
Operating	-20 to 50
Storage	-30 to 70
Charging	0 to 40
Humidity	
Operating	10% to 90% (non-condensing)
Storage	5% to 95% (non-condensing)
Resistance	
Impact Resistance	1.2 m (4 ft.) multiple drops onto concrete, 6-face drops 6 cycles With protective boot: 1.5 m (5 ft.) multiple drops onto concrete, 6 drops on each side
Tumble Test	500 tumbles at 0.5 m per applicable IEC tumble specifications
Splash/Dust Resistance	IP65 per applicable IEC sealing specifications
Electrostatic Discharge	± 15 kV air discharge, ± 8 kV contact discharge

Development Environment & Tools	
JAVA	Environment Android studio Software Development Kit: JAR
C#	Environment: Visual Studio Software Development Kit: DLL (Xamarin Library)

APPENDIX

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The Reader Config involves the android-serial port-API project of Apache License Version 2.0, January 2004.

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Documents / Resources

	<p>CIPHER LAB RK25 Rugged Mobile Computer [pdf] Instructions RS35, Q3N-RS35, Q3NRS35, RK25, Rugged Mobile Computer, Rugged Computer, RK25, Mobile Computer</p>
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References

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