



## CipherLab RS50: Rugged Smartphone, Android, long 2D, WiFi dual band, WPAN, WWAN - 3G/LTE, RFID, HC battery, NFC, USB Kit

CipherLab RS50 series is a new touch mobile computer, which is well-balanced between ruggedness and user-friendly form factor to deliver superior user experience. Tailored for user's demands in logistics, field service, and warehousing, the RS50 series runs in Android 6.0 operating system and is equipped with a 4.7" multi-touch display, wireless communications, application software, and development tools. All these featured designs are protected under the industrial standard up to IP67 to assure the performance in any harsh environments.

When you need a smartphone form factor with robust protection for use in logistics, on-site service, warehousing and similar, the RS50 is the perfect solution. Running on Android 6.0, this tough enterprise mobile computer is IP67-rated and survives multiple 1.8m drops to concrete. Integrated WWAN, WLAN and WPAN take care of voice and data comms and there's a choice of integrated barcode readers. With the enterprise in mind there are USB-connected cradles and ethernet comms. When the working environment is harsh, the RS50 is the smarter choice.



### Key Features of the Smartphone CipherLab RS50:

- Full version of Android 6.0 with GMS
- The fastest Cortex A56 processor, octa-core, 2 GHz
- USB 2.0 OTG communication interface
- Long battery life, up to 16 hours after charging
- 2 Dual SIM - 2 slots for 2 SIM cards + memory card slot
- RFID and NFC reader as standard
- 4.7" capacitive touch display

- IP67
- Built-in multi-touch panel
- Protective layer of display: Corning Gorilla Glass 3
- battery backup with Hot swap
- Lightweight 330 g
- Camera 8 MPix
- Wi-Fi and Bluetooth
- 2D Imager
- Supported by the Sysdev KALIPSO Mobile Application Generator software development tool

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# Technical Description

## Functionality & Operation

Communication interface	USB, 802.11 a/b/g/n/ac/d/e/i/w dual band, Bluetooth Class II ver. 2.1+ EDR, Bluetooth 4.1 BLE, Audio
1D Barcode Symbologies	All standard one-dimension barcodes
Memory	16GB Flash, 2 GB RAM
CPU Type	Cortex A53 Octa Core Up to 2,0 GHz
Operation interface	programmable buttons, volume up and down keys, ON/OFF, scan button, color touch LCD panel
2D Code Symbologies	all standard 2D-Codes
Display type	4.7" HD 720 (W) x 1280 (H)
Operating system	Android 6.0 (GMS)
Wireless communication	WiFi, Bluetooth®, EDGE, GPRS, GPS, GSM, HSDPA, HSPA+, LTE, UMTS, NFC reader
Expansion slot	Micro SD Card (SDHC), 2x SIM, SAM
RFID transponder protocols	13.56 MHz, ISO 14443A, ISO 14443B, ISO 15693, NFC (NDEF)
Touch-screen panel	Yes, capacitive multi-touch
GPS navigation	AGPS, GLONASS, BeiDou, GPS
WLAN Features	IEEE 802.11 a/b/g/n/ac/d/e/i/w dual band

## Optical

Depth of scan field	8-425 cm
Sensors	light sensor, proximity sensor, Accelerometer, e-compass
Bar code scanner	Long 2D Imager
Camera	8 MPix, with Autofocus, with LED flash

## Electrical

Main battery pack	Rechargeable Li-Ion battery 5300 mAh, 3,8V
Main battery pack operating time	16hod

## Mechanical

Dimensions	Width: 80mm, Height: 162mm, Length: 26mm
Weight	365g
Color	black, yellow

## Environment

Operating temperature	-20 to 50°C
Storage temperature	-30 to 70°C
Shock resistance	drop from 1,8 m on to concrete surface
Storage humidity (non-condensing)	5 to 95%
Operating humidity (non-condensing)	10 to 90%
Electrical static discharge	±8kV contact, ±15kV air
Ingress protection	IP67, IP65

## Others

Certifications	CE, Green, NCC, FCC, CB, RoHS, REACH, WEEE, ErP, SRRC, CCC, MII, RCM, CRC, BC, NBTC
Application software	Reader Configuration, Button Assignment, SOTI MobiControl, App-Lock, Kalipso Mobile Application Generator, HTML5 (Browser & API), MDS, Terminal Emulation, Xamarin Binding

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