



## **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

YOUTUBE='gtZk-e05FZY'



# Technical Description

|                                     |                                                                                                                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functionality & Operation           |                                                                                                                                                                            |
| Display type                        | 4.7" HD 720 (W) x 1280 (H)                                                                                                                                                 |
| Operation interface                 | programmable buttons, volume up and down keys, ON/OFF, scan button, color touch LCD panel                                                                                  |
| WLAN Features                       | IEEE 802.11 a/b/g/n/ac/d/e/i/w dual band                                                                                                                                   |
| Expansion slot                      | Micro SD Card (SDHC), 2x SIM, SAM                                                                                                                                          |
| Touch-screen panel                  | Yes, capacitive multi-touch                                                                                                                                                |
| Communication interface             | USB, 802.11 a/b/g/n/ac/d/e/i/w dual band, Bluetooth Class II 5.1 ver. 2.1+ EDR, Bluetooth 4.1 BLE, Audio                                                                   |
| Operating system                    | Android 6.0 (GMS)                                                                                                                                                          |
| Memory                              | 16GB Flash, 2 GB RAM                                                                                                                                                       |
| CPU Type                            | Cortex A53 Octa Core Up to 2,0 GHz                                                                                                                                         |
| Wireless communication              | WiFi, Bluetooth®, EDGE, GPRS, GPS, GSM, HSDPA, HSPA+, LTE, UMTS, NFC                                                                                                       |
| RFID transponder protocols          | ISO 14443A, ISO 14443B, ISO 15693, NFC (NDEF)                                                                                                                              |
| GPS navigation                      | a-GPS, GLONASS, BeiDou, GPS                                                                                                                                                |
| 1D Barcode Symbolologies            | All standard one-dimension barcodes                                                                                                                                        |
| 2D Code Symbolologies               | all standard 2D-Codes                                                                                                                                                      |
| Optical                             |                                                                                                                                                                            |
| Bar code scanner                    | Long 2D Imager                                                                                                                                                             |
| Depth of scan field                 | 8-425 cm                                                                                                                                                                   |
| Camera                              | 8 MPix, with Autofocus, with LED flash                                                                                                                                     |
| Sensors                             | light sensor, proximity sensor, accelerometer, e-compass                                                                                                                   |
| Electrical                          |                                                                                                                                                                            |
| Main battery pack                   | Rechargeable Li-Ion battery 5300 mAh, 3,8V                                                                                                                                 |
| Main battery pack operating time    | 16hod                                                                                                                                                                      |
| Mechanical                          |                                                                                                                                                                            |
| Weight                              | 365g                                                                                                                                                                       |
| Dimensions                          | Width: 80mm, Height: 162mm Length: 26mm                                                                                                                                    |
| Color                               | black, yellow                                                                                                                                                              |
| Environment                         |                                                                                                                                                                            |
| Operating humidity (non-condensing) | 10 to 90%                                                                                                                                                                  |
| Operating temperature               | -20 to 50°C                                                                                                                                                                |
| Storage temperature                 | -30 to 70°C                                                                                                                                                                |
| Ingress protection                  | IP67, IP65                                                                                                                                                                 |
| Shock resistance                    | drop from 1,8 m on to concrete surface                                                                                                                                     |
| Storage humidity (non-condensing)   | 5 to 95%                                                                                                                                                                   |
| Electrical static discharge         | ±8kV contact, ±15kV air                                                                                                                                                    |
| 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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