

## RS31: Enterprise Smartphone, Android, 2D imager, GMS

CipherLab RS31 is a touchscreen, mobile, robust and very durable smartphone with dual SIM card, built-in NFC and RFID reader, barcode scanner and a 8 megapixel camera. Its solid protection ensures worry-free applications in the field. The 4.7-inch touch screen along with Android operating system provides to an user the interface as similar and familiar as any personal smartphone. Armed with ruggedness, the RS31 provides extra protection to enhance ruggedness with a protective boot. Equipped with versatile reader options, NFC communication and other functions, the RS31 offers a rugged and intelligent solution to meet mobile workers' needs.

The RS31 series touch mobile computer is a touch-oriented smartphone with built-in multi-touch panel operating on the Android operating system. Compared to its predecessor RS30, the RS31 is faster, more robust, and has the newest version of the operating system, with all the other features retained. It is also equipped with a better Dragontrail™ Glass, which makes it HIGHLY scratch-resistant (eg. while wearing it in the pocket with the keys). The large range of temperatures at which the RS31 is fully functional allows the device to be used in very cold or very hot environments. For automated data collection, it uses the 1D / 2D barcode reader and the RFID, as well as the NFC, reader.



### Key features of the CipherLab RS31:

- Android OS
- Long battery life
- 2 Dual SIM
- built-in NFC and RFID reader as standard
- Touch, transmissive display 4.7 "
- IP67
- built-in multi-touch panel
- protective layer display: Dragontrail™ Glass
- battery backup with Hot swap function (battery replacement during work)
- Low weight 260 g
- 8 megapixel camera

- Wi-Fi and Bluetooth
- supported by development software tool Sysdev KALIPSO Mobile Application Generato



Technical Description

|                                     |                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Functionality & Operation           |                                                                                                   |
| Operating system                    | Android 7.0                                                                                       |
| 2D Code Symbolologies               | all standard 2D-Codes, PDF417, MaxiCode, Data Matrix, QR code, Aztec                              |
| WPAN Features                       | Bluetooth® v4.2 Dual mode (2.1+EDR / BLE), Bluetooth® Class II v2.0, Bluetooth® Class II v2.1 EDR |
| RFID transponder protocols          | NFC (NDEF), ISO 14443A, ISO 14443B, ISO 15693                                                     |
| Display type                        | 4,7" HD IPS LCD Transmissive Dragontrail TM glass, sunlight visibility                            |
| Touch-screen panel                  | capacitive multi-touch                                                                            |
| Operation interface                 | scan button, programmable buttons, volume up and down keys, ON/OFF                                |
| Audio                               | speaker, dual array digital microphone with echo and noise cancellation                           |
| WLAN Features                       | IEEE 802.11 a/b/g/n                                                                               |
| 1D Barcode Symbolologies            | All standard one-dimension barcodes                                                               |
| Wireless communication              | NFC, Bluetooth®, GPS, WiFi, GSM, EDGE, GPRS, LTE, WCDMA, HSDPA, HSPA+                             |
| CPU Type                            | Cortex 1.3 GHz Quad Core Processor                                                                |
| Memory                              | 16GB eMMC Flash                                                                                   |
| Memory                              | 2GB LPDDR3 RAM                                                                                    |
| Expansion slot                      | Micro SD Card (SDHC), 2x SIM, SAM                                                                 |
| Indicators                          | Three-color LED , vibration, speaker                                                              |
| Communication interface             | 802.11a/b/g/n, Bluetooth, micro USB                                                               |
| GPS navigation                      | a-GPS, GLONASS                                                                                    |
| WWAN Features                       | GSM/GPRS/EDGE: Quad band 850 / 900 / 1800 / 1900 MHz, LTE 800/900/1800/2100/2600 MHz              |
| Bluetooth profiles                  | GAP, SDP, HSP, GOEP, SPP, OPP, A2DP, PAN, HFP, AVRCP, HID, PBAP, GAVDP                            |
| Optical                             |                                                                                                   |
| Bar code scanner                    | 2D Imager                                                                                         |
| Depth of scan field                 | 35 ~ 280 mm                                                                                       |
| Camera                              | 8 MPix, with Autofocus                                                                            |
| Resolution                          | 1280x720 px                                                                                       |
| Electrical                          |                                                                                                   |
| Main battery pack operating time    | 10hod                                                                                             |
| Main battery pack                   | Rechargeable Li-Ion battery 3000 mAh, 3.7V                                                        |
| Mechanical                          |                                                                                                   |
| Dimensions                          | Width: 80mm, Height: 17.3mm Length: 159mm                                                         |
| Weight                              | 260g                                                                                              |
| Color                               | black                                                                                             |
| Environment                         |                                                                                                   |
| Operating temperature               | -20 to 50°C                                                                                       |
| Storage temperature                 | -30 to 70°C                                                                                       |
| Operating humidity (non-condensing) | 10 to 90%                                                                                         |
| Storage humidity (non-condensing)   | 5 to 95%                                                                                          |

|                             |                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingress protection          | IP67                                                                                                                                                                 |
| Electrical static discharge | ±8kV contact, ±15kV air                                                                                                                                              |
| Shock resistance            | Withstands multiple drops from 1,2 m to concrete, in all axis and in operating temperature range                                                                     |
| <b>Others</b>               |                                                                                                                                                                      |
| Application software        | App-Lock, SOTI MobiControl, Kalipso Mobile Application Generator, MIRROR Browser, Reader Configuration, Button Assignment, HTML5 (Browser & API), Terminal Emulation |
| Optional accessories        | vehicle mount, charging and communication cradle, snap-on communication & charging cable, battery charger, Schutzrahmen                                              |
| Certifications              | CE, RCM, NCC, JRL, TBL, RoHS, REACH, WEEE, ErP                                                                                                                       |
| Warranty                    | 1 year                                                                                                                                                               |

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