



## RS38: Enterprise Smartphone, advanced 2D imager, Android 13, WiFi6E, LTE/5G, GPS, GMS

The CipherLab RS38 is a touchscreen mobile computer with advanced scanning and reading capabilities. It is built on the Android 13 platform with guaranteed future upgradeability up to Android 18. Launch price, one customer can order 1 unit only.

The user-friendly interface of the CipherLab RS38 mobile computer shortens the learning and training process. The RS38 offers advanced 1D and 2D barcode scanning capabilities, HF RFID functionality and contactless NFC applications. It features a powerful processor, high-speed camera, Wi-Fi 6E connectivity with dual-band simultaneous connection (DBS), 5G wireless technology, Bluetooth 5.2 and a rugged design with IP65 and IP68 ratings.



CipherLab RS38 is suitable for mobile workers and frontline employees. Its capabilities also include OCR solutions for reading characters on products and parts, such as serial numbers and expiration dates. All this contributes to efficiency and accuracy in areas such as logistics, public transport, retail and more.

### Key features of the CipherLab RS38 mobile computer

- 8 GB & 128 GB memory size
- fast Octa-Core 2.4 GHz processor
- 6" FHD touch screen
- WiFi 6E with dual-band simultaneous connection (DBS) support on all models
- LTE/5G wireless connectivity
- 2D & QR code scanner, HF RFID & NFC reader
- 2D imager option with long read range (up to 14 meters)
- Optical Character Recognition (OCR) software for directly reading characters marked on products and parts

- [hot-swap feature for battery replacement](#)
- [AER \(Android Enterprise Recommended\) certification](#) and Android Silver Partner certification

The offered price is valid for orders until 29/04/2024, you can order a maximum of 1 piece (for resellers a maximum of 3 pieces).

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# Technical Description

| Functionality & Operation           |                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Operating system                    | Android 13                                                                                                   |
| Wireless communication              | 5G, Bluetooth®, EGPRS, EDGE, GPRS, GPS, GSM, LTE, NFC, WCDMA, WiFi 6                                         |
| WWAN Features                       | 5G, GSM/GPRS/EDGE: Quad band 850 / 900 / 1800 / 1900 MHz, LTE 800/900/1800/2100/2600 MHz, WCDMA 2100MHz      |
| Operation interface                 | color touch LCD panel, ON/OFF, volume up and down keys, programmable buttons, scan button                    |
| Data memory                         | 128GB UFS 3.1 ROM                                                                                            |
| Program memory                      | 8GB LPDDR5 SDRAM                                                                                             |
| Expansion slot                      | Micro SD Card (SDXC), Nano SIM slot                                                                          |
| 1D Barcode Symbolologies            | All standard one-dimension barcodes                                                                          |
| 2D Code Symbolologies               | all standard 2D-Codes, OCR                                                                                   |
| Display type                        | 6" FHD+ 1080(W) x 2160(H), Corning® Gorilla® GG7, outdoor visibility (630 nit), optically bonded Touch Panel |
| RFID transponder protocols          | ISO 14443A, ISO 14443B, ISO 15693, FeliCa                                                                    |
| WPAN Features                       | Bluetooth® v5.2 Dual mode (2.1+EDR / BLE)                                                                    |
| Audio                               | stereo headset jack, 3x microphone with echo and noise cancellation, 2x speaker                              |
| CPU Type                            | Qualcomm QCS4490 Kryo Octa-Core 2.4 GHz                                                                      |
| Touch-screen panel                  | capacitive multi-touch , supports stylus, bare or gloved finger, water rejection and wet finger              |
| Indicators                          | 1 tri-color LED, 1 bi-color LED, vibrator                                                                    |
| Communication interface             | 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/ax dual band, MU-MIMO 2x2, NFC, USB, WLAN (WiFi), LTE/5G, Audio              |
| WLAN Features                       | IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/ax, DBS (Dual Band Simultaneous), WiFi 6E, MU-MIMO 2x2                  |
| GPS navigation                      | a-GPS, BeiDou, Galileo, GLONASS, GPS, GNSS dual-band, XTRA, QZSS                                             |
| Optical                             |                                                                                                              |
| Bar code scanner                    | Advanced Long 2D Imager                                                                                      |
| Depth of scan field                 | 4 cm ~ 1400 cm                                                                                               |
| Camera                              | 16 MPix, with Autofocus, with LED flash                                                                      |
| Sensors                             | accelerometer, e-compass, gyroscope, magnetometer, proximity sensor, light sensor                            |
| Electrical                          |                                                                                                              |
| Main battery pack                   | Rechargeable Li-Po battery 4500 mAh, Hot-Swap                                                                |
| Main battery pack operating time    | 15 hrs (fast charging 2 hod)                                                                                 |
| Mechanical                          |                                                                                                              |
| Dimensions                          | Width: 78.5mm, Height: 165.4mm Length: 15mm                                                                  |
| Weight                              | 268g (include battery)                                                                                       |
| Environment                         |                                                                                                              |
| Electrical static discharge         | ±15kV air, ±8kV contact                                                                                      |
| Shock resistance                    | MIL STD 810H, multiply drops from 1,5 m onto concrete surface, 500 tumbles at 0,5 m                          |
| 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

IP65, IP68

## Others

### Certifications

AER (Android Enterprise Recommended), ASP (Android Silver Partner), CE, FCC, IC, ISO 14443A, ISO 15693, NCC, TBL, JRL, BIS, REACH, RoHS, WPC, TSCA, CA65, BC, NrcAN, NBTC, SRRC, WEEE, CCC, BSMI

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