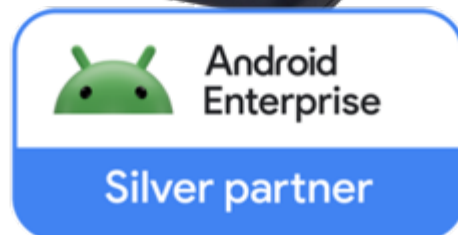# RS36: Enterprise Smartphone, 4G RAM, 2D imager, GMS, LTE, Android 12, no cable nor PS

The CipherLab RS36 touch mobile computer is the upgrade to the hugely successful RS35. The RS36 features a powerful processor, high-resolution camera, Wi-Fi 6 transmission, Bluetooth 5.1 connectivity, OCR solution, sunlight-readable screen, and rugged design with IP65 and IP68 ratings. Its advanced scanning and reading capabilities, including 1D and 2D barcode scanning, HF RFID functionality and contactless NFC applications, make it ideal for retail, transportation, and logistics operations.

The RS36 mobile computer provides reliable performance for demanding operations. It features a powerful Qualcomm octa-core processor that ensures high speed, improved application performance, and reduced battery consumption. The device boasts a large 5.5" display with high brightness, which can be easily operated even with gloves or a stylus. The RS36 offers seamless connectivity both inside and outside your facilities. With Wi-Fi 6, Bluetooth 5.1, and 4G LTE technologies, you'll have fast and reliable network access anytime, anywhere. Designed to withstand challenging conditions, the mobile computer is rugged and certified for drop, water, and dust resistance (IP65 and IP68). You can rely on its performance even in dusty environments or rainy conditions.

The RS36's versatile capabilities include scanning all types of barcodes, including 2D codes and QR codes, as well as utilizing NFC contactless technology. It can also be equipped with a UHF RFID attachment, enabling high-speed reading of over 900 tags per second. The built-in scanner can read barcodes even in low-light conditions. The mobile computer is equipped with OCR software, allowing for direct reading of characters on products or packages, streamlining tasks by quickly reading names, addresses, and other information, eliminating typing errors. Other features include the popular hot-swap function, allowing you to replace a depleted battery with a fully charged one without interrupting open applications. The RS36 runs on Android 12, supports Google Mobile Services (GMS), and is Android Enterprise Recommended (AER) certified, ensuring full access to Google applications and a consistent user experience.

Key features of the CipherLab RS36 Enterprise Smartphone:

- rugged design with IP68
- powerfull processor Qualcomm 4290 Octa-core 2 GHz
- strong wireless connectivity: WiFi 6 & Bluetooth 5.1 & LTE & GPS
- 2D & QR code scanner, HF RFID & NFC reader
- 2D imager option with long read range (up to 20 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](#)

Product video:
YOUTUBE='ZnrTDo0iRuo'

Technical Description

Functionality & Operation

Operating system	Android 12
Wireless communication	Bluetooth®, GPS, LTE, NFC, WiFi
Touch-screen panel	Capacitive touch supports stylus, bare or gloved fingertip inputmulti-touch, allow water rejection and wet finger
Indicators	1 tri-color LED, 1 bi-color LED, vibrator
Communication interface	Audio, Bluetooth Class II 5.1 ver. 2.1+ EDR, OTG, NFC, USB, WLAN (WiFi), WPAN IEEE 802.15, WWAN, 802.11 a/b/g/n/ac/d/h/i/r/k/v/w dual band
GPS navigation	a-GPS, GPS, GLONASS, Galileo, BeiDou
Operation interface	programmable buttons, volume up and down keys, ON/OFF , left and right trigger keys
Data memory	64GB Flash ROM
Program memory	4GB RAM
Programmable features	Android 12.0 SDK, HTML 5 API, Reader API (Java/Xamarin)
Expansion slot	Micro SD card slot with SDHC (up to 32GB) and SDXC (up to 2TB) support, 2 nano SIM / 1 nano SIM and 1 eSIM (optional)
1D Barcode Symbologies	All standard one-dimension barcodes
2D Code Symbologies	all standard 2D-Codes, OCR
CPU Type	Qualcomm 4290 Octa-core 2 GHz
Display type	5.5" HD+ 720(W) x 1440(H), Transmissive IPS LCD, Corning® Gorilla®, outdoor visibility (630 nit), optically bonded Touch Panel
RFID transponder protocols	HF RFID 13.56 MHz frequency which supports ISO14443A, ISO14443B, ISO15693, and FelicaSupport NFC (Peer-to-Peer, Card Reader, Card Emulation)
WLAN Features	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w, IEEE 802.11ax (WI-FI 6 model only)
WPAN Features	Bluetooth® Class II, V5.1 dual mode, V2.1 with Enhanced Data Rate (EDR)
WWAN Features	EDGE/GPRS/GSM: 850/900/1800/1900, UMTS/HSPA+: B1/B2/B4/ B5/B6/B8, FDD LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B19/B20/B25/B26/B28/B66, TDD-LTE: B38/39/40/41, Support VoLTE and Worldwide Band
Audio	speaker, dual array digital microphone with echo and noise cancellation

Optical

Bar code scanner	2D Imager (SE4100)
Depth of scan field	4,6 cm ~ 49,5 cm
Camera	Rear :16 megapixels PDAF with LED flash / Front:5 megapixels
Sensors	Light sensor, Proximity sensor, Motion sensor (Accelerometer, G-sensor), E-compass (Magnetometer), Gyroscope

Electrical

Main battery pack	Rechargeable Li-Ion battery 4000 mAh, 3,8V , HotSwap
Main battery pack operating time	12hod

Mechanical

Dimensions	Width: 76.8mm, Height: 165mm Length: 17.9mm
Weight	288g

Environment

Electrical static discharge	±15kV air, ±8kV air
Shock resistance	500 tumbles at 0,5 m, multiply drops from 1,5 m onto concrete surface

Operating temperature	-20 to 50°C
Operating humidity (non-condensing)	10 to 90%
Ingress protection	IP68
Storage temperature	-30 to 70°C
Storage humidity (non-condensing)	5 to 95%

Others

Application software	ReMoCloud, EnDeCloud, ADC, WMDS, APPLock, Terminal Emulator, BT Printer Mate, Device Health, SIP Controller, Software Trigger,Signature Capture, EZEdit, CipherLab Assistant Service, Ping Tool, Wireless Initiator, IntelliWorker, Reader Config, Button Assig
Certifications	AER (Android Enterprise Recommended), ASP (Android Silver Partner) / LTE : CE, FCC, IC, NCC, TBL, JRL, BIS, WPC, WEEE, RoHS, REACH, CA65, TSCA, BC, NrCAN, NBTC / WI-FI 6 ONLY : SRRC, CCC, BSMI, NCC, CE, FCC, IC, WEEE, RoHS, REACH, CA65, TSCA, BC, NrCAN
Warranty	1 year