RS36

Short-Range UHF RFID Reader

Fast and Precise RFID Asset Tracking and Inventory Control

The RS36 NUHF RFID Reader is engineered for accurate, secure, and high-speed tag scanning in real-world environments. Reading over 100 tags per second , it empowers workers with fast and precise data capture. Its 5.5-inch, 630-nit touchscreen offers clear visibility outdoors, while 4GB RAM and 64GB Flash ensure smooth multitasking. With EPC Gen2 compliance for secure reads, the RS36 is ideal for field service, utilities, and supply chain, enabling confident asset tracking, inspections, and real-time record updates in a compact and rugged design.

Tool Tracking

The RS36 NUHF RFID Reader streamlines tool tracking by enabling fast and accurate tag reading. This allows workers to quickly locate and verify tools while providing real-time insights into their usage, availability, and location. It is particularly well-suited for manufacturing and field service operations.
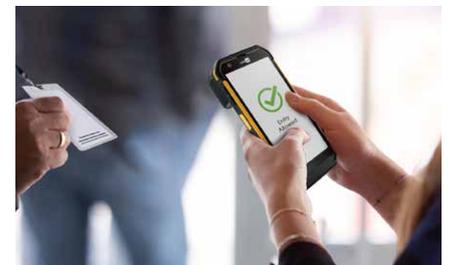
Inventory Management

The RS36 NUHF RFID Reader facilitates frequent inventory tracking, ensuring accurate control and timely replenishment. With a 5-meter reading range, RFID-tagged items can be quickly identified and accounted for.

Asset Tracking

By utilizing real-time data capture, businesses can effectively track their product quantities and monitor workflows within the supply chain. This approach enables the collection of crucial data related to equipment, inventory, and assets, which facilitates automation and simplifies operations throughout the entire process.

Event Management and Access Control

The RS36 NUHF RFID Reader can manage attendees, ticketing, and access control, allowing staff to validate RFID tags or wristbands and sync data wirelessly in real time.

RS36 Short-Range UHF RFID Reader / series

100+	5M	IP54	1.2M MULTIPLE DROPS

Performance	Operating System	Android 12 (GMS) upgradable to Android 14 (GMS)			
	CPU	Qualcomm Octa-core 2GHz			
	Memory	64GB UFS Flash / 4GB LPDDR4X RAM			
	Expansion	Micro SD card slot with SDHC (up to 32GB) and SDXC (up to 2TB) support			
	SIM	2 nano SIM/ 1 nano SIM and 1 eSIM (optional)			
	Operating Power	Hot-swappable and rechargeable 3.85V, Li-ion 4000mAh , Extended battery: 6000mAh			
	Working Hours	12+ hours (standard battery), 18+ hours (extended battery)			
	Alert	1 tri-color LED, 1 bi-color LED, vibrator			
	Interface Supported	6-pin I/O & USB 3.1 Gen 1 Type-C with OTG			
Wireless Communication	WWAN	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 Bands			
	WLAN	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w, IEEE 802.11ax (WI-FI 6 model only)			
	Additional WLAN Features	802.11r (fast roaming), 802.11 v/k (Voice-Enterprise), MU-MIMO 2x2 (Wi-Fi 6 model only)			
	WPAN	Bluetooth® Class II, V5.1 dual mode, V2.1 with Enhanced Data Rate (EDR)			
	GPS[3]	GPS/A-GPS/GLONASS/Galileo/Beidou			
Data Capture	Barcode Scanning	1D/2D imager (Standard range: SE4100/SE4770; Advanced range SE5500) HF RFID 13.56MHz frequency which supports ISO14443 TYPE A&B, ISO15693, Felica			
	RFID Read / Write	Support NFC (Peer-to-Peer, Card Reader, Card Emulation)			
	Camera	Rear :16 megapixels PDAF with LED flash / Front:5 megapixels2			
Physical Characteristics	Display	5.5'' HD+ 720 (W) x 1440 (H), Transmissive IPS LCD, outdoor visibility (630 nit), optically bonded Touch Panel			
	Touch Panel	Corning® Gorilla® Cover Glass, Capacitive touch supports stylus, bare or gloved fingertip input multi-touch, allow water rejection and wet finger			
	Interactive Sensor Technology	Light sensor, Proximity sensor, Motion sensor (Accelerometer, G-sensor), E-compass (Magnetometer), Gyroscope			
	Keypad	1 programmable key, volume up and down keys, left and right trigger keys, power key			
	Audio	Speaker (80 dB at 40 cm), microphones with echo and noise cancellation			
	Size (LxWxH)	165 x 78.6 x 37.2 mm			
	Weight	337g (with 4000mAh battery) / 368g (with 6000mAh battery)			
UHF RFID Performance	Standard	EPC C1 GEN2 / ISO18000-6C			
	Rf Module	Impinj E310 entry level UHF RFID chipset solution			
	Antenna	Circular polarization			
	Fastest Read Data Rate	200+ tags/sec[1]			
	Multi Tags Read Data Rate	100+ tags/sec[2]			
	Rf Power Level	0-26,26 steps			
	Normal Read Range	1.2+ m (3.94 +ft)			
	Max Read Range	5 m (16.4 ft)[4]			
	Frequency Range	US:902-928MHz EU: 865-868MHz	IN:865-868MHz TW: 920-928MHz	TH: 920-924MHz JP: 916-920MHz	AU: 920-924MHz NZ: 920-924MHz
User Environment	Operating Temperature	-20°C to 50°C / -4°F to 122°F			
	Storage Temperature	-30°C to 70°C / -22°F to 158°F (without battery)			
	Humidity (non-condensed)	Operating 10% to 90% / Storage 5% to 95%			
	Impact Resistance	IP54 (with RS36) 1.2m multiple drops (with RS36)			
	Electrostatic Discharge	± 15 kV air discharge, ± 8 kV contact discharge			
	Charging Time	Full charged time approximate 4 hrs (charge with RS36 data terminal)			
	EMC	CE, FCC, NC, JRL, NBTC, WPC			
Development Support		Android 12.0/Android 14 SDK, HTML 5 API, Reader API (Java/Xamarin)			
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 Assignment, HF RFID Config, EZConfig with filter repeated tags, RFID Android Software Development Kit, Enterprise Setting, Barcode To Setting, LogGen, Agility Intelligence, Cloud Message, EZcheck			
Certified Application		ReMoCloud, EnDeCloud, SOTI MobiControl, VMware Workspace ONE, Ivanti Wavelink Velocity			
Accessories		Charging and communication cradle, USB snap-on cable, Hand strap, Pistol grip, 4-slot battery charger, 5-slot Terminal charging cradle, Battery Charger with Terminal Charging Cradle, Screen protector			
Warranty		1 year standard warranty			

1.The fastest read rate are subject to the function setting, tag performance, test environment and conditions. The test results are based on Smartrac DogBone RFID tag Impinj Monza R6-P (97 x 27 mm / 3.82 x 1.06 in)
2.The scanning speeds are reference values. Actual multiple scanning speeds may vary depending on the environment. The results were tested by CipherLab's Fastest mode setting with FM0 400KHz/640KHz, Section0, Dynamic Q in ALN9740 700 tags space.
3.The maximum read range are subject to the function setting, tag performance, test environment and conditions. The test results are based on Smartrac DogBone RFID tag Impinj Monza R6-P (97 x 27 mm / 3.82 x 1.06 in) by CipherLab comprehensive mode.
4.The maximum read range are subject to the function setting, tag performance, test environment and conditions. The test results are based on Smartrac DogBone RFID tag Impinj Monza R6-P (97 x 27 mm / 3.82 x 1.06 in) by CipherLab long range mode.

ACCESSORIES

4-Slot Battery Charger	Charging and Communication Cradle	Snap-on Cable	Shoulder Strap	Hand Strap	5-Slot Terminal Charging Cradle	Battery Charger with Terminal Charging Cradle	Belt Holster