

Mobile NFC Smartphone Solution

Mobilise your workforce and your processes

The HealthRFID Smartphone solution is a state-of-the-art tracking and tracing solution making use of the near-field-communication functionalities of modern smartphones. The HealthRFID Android application is required and fully supports the handling of RFID tagged specimen or blood bags.

- Low cost solution to track and trace single items
- No line of sight required - just tap and go
- Intuitive - Lightweight - Accurate
- One device for many purposes

User Interface

- Smartphone colour touch screen
- Intention Specific and uncluttered
- Minimal User Training Needed

Connectivity

- Wireless 4G or 3G
- WiFi
- Bluetooth

RFID tags

- Standard HF (13.56 MHz)
- ISO 15693 compliant

Standard Phones

NFC equipped

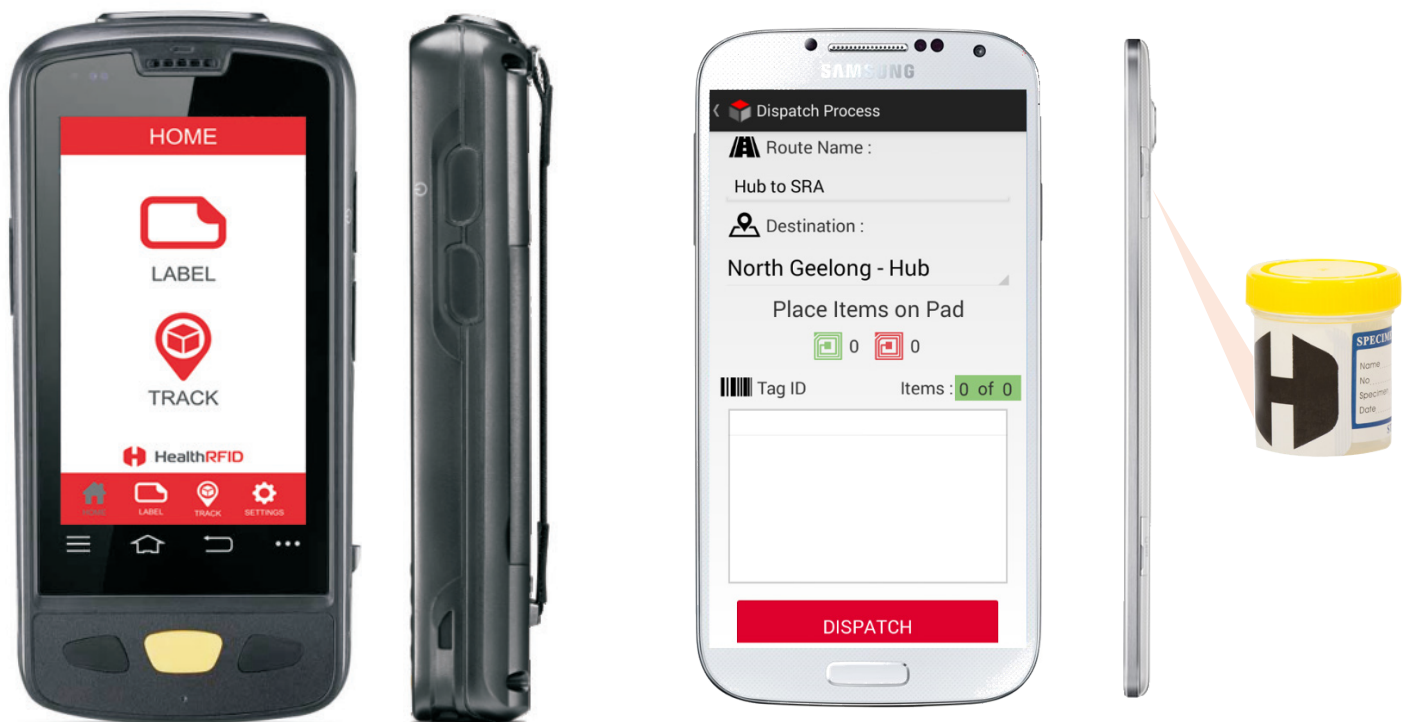
- Runs on Android Smartphones certified for use by HealthRFID
- HTC One M8
- Samsung S3 and S4 mini

Ruggedized Handheld Device

- Ip64
- 2G/3G/UMTS
- 4 inch capacitive touchscreen
- Bluetooth
- WiFi
- NFC
- Powerful battery, docking station (optional)
- Carrying case (optional)
- Pistol handle (optional)



the next generation of tracking



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www.healthrfid.com



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Technical Specification Ruggedized Handheld



Physical Characteristics

Dimensions	153mm x 75mm x 29mm/ 6.02 x 2.95 x 1.14in
Weight	286g/ 10.09oz
Display	4" WVGA (480*800), 16.7M colors
Touch Panel	Rugged capacitive touch panel
Power	Main battery: Li-ion, 3200mAh Pistol battery: Li-ion, 5200mAh (Optional)
Expansion Slot	1 PSAM, 1 SIM, 1 MicroSD(TF) slot
Interfaces	USB Micro-B
Audio	0.5W speaker, build-in microphone
Keypad	4 TP touch key-press buttons
Sensors	Light Sensor, Proximity Sensor

Performance

CPU	Cortex-A7 1.3GHz quad-core
RAM	1GB
ROM	4GB
Expansion	Supports up to 32GB Micro SD card

Developing Environment

Operating System	Android 4.4.2
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	14°F to 122°F / -10°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.2m drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.64ft falls at room temperature
Sealing	IP64

Communication

WLAN	IEEE802.11 b/g/n
WWAN	GSM/GPRS/EDGE Quad Band (850/900/1800/1900MHz) WCDMA (850/1900/2100MHz)
Bluetooth	Bluetooth 4.0
GPS	GPS, AGPS

Biometric (Optional)

Functions	Enrollment, compare, deletion etc.
Sensor	TCS255
Sensor Type	Capacitive Sensor
Resolution	508DPI
Memory	1,000 PCS fingerprints

InfraRed (Optional)

Wavelength	940nm
Frequency	38kHz
Range	> 4m
Protocol	DLT_645-2007

Barcode Scanning (Optional)

1D Linear Scanner	
1D Laser / CCD	Symbol SE965
Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner	
2D CMOS Laser Scanner	Symbol SE4750
Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

RFID (Optional)

LF	
Frequency	125kHz, 134kHz (FDX-B / HDX)
Protocol	ISO 11784/5, ISO 18000-2
Chips	R/O ID card, eg EM4100/4200, TK4100 R/W ID card, eg EM4305/HITAG S Animal tags Others for customization
Range	3-8cm
LF (with external antenna)	
Frequency	134kHz (FDX-B+HDX)
Protocol	ISO 11784/5
Chips	Animal tags Others for customization
Range	3-12cm, external antenna 3-20cm, with a 75cm extension antenna
HF	
Frequency	13.56MHz
Protocol	ISO 14443A/B, ISO 15693 M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card CPU_B card ICODE II, TI2048, LRI64K Others for customization
Range	3-8cm
NFC	
Frequency	13.56MHz
Protocol	ISO/IEC 18092 (ECMA 340) ISO/IEC 21481 (ECMA 352)
Range	2-4cm

* For the UHF specifications, please check C4000 UHF specification sheet

Other Modules (Optional)

Camera	8MP autofocus camera with flash
PSAM	ISO7816 Protocol, 1 PSAM slot

Accessories



AC Adapter



Snap-on



USB cable



Cradle (Optional)



Pistol (Optional)



Fingerprint Snap-on (Optional)



Carrying case (Optional)

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