

## Smart Handheld RFID Solution



### The Future Is Here - Today!

The RH767 rugged handheld is a dual RFID and barcode reader that features the very latest technology to optimize data collection capabilities now and in the future. Its compact, lightweight design will keep your workforce agile and mobile even with the changing technology demands of your customers and suppliers. With an integrated barcode scanner and your choice of either HF or UHF RFID readers, deploying the RH767 means that you will have the technology today that will power your business for years to come.

### A Familiar Working Environment

The RH767 has the familiar Windows CE 5.0 operating system, allowing you to quickly develop applications that your workers will feel confident using immediately and with minimal training. The PDA form factor and gun grip handle were designed for comfort and ease of use. The barcode scanning trigger and RFID antenna are cleverly integrated into the handle, so that no external devices or antennas will get in the way of operation. Data entry is made easy in any working condition using the large color LCD touch screen and 36-key alphanumeric keypad.

### Dual Technology – Maximum Flexibility

The RH767's versatile and flexible design will keep users closely in step with technology. The HF model is a triple RFID reader, supporting ISO 15693 and ISO 14443A/B, while the UHF model reads multiple tags including EPC Gen 2. The RH767 also showcases its flexibility in data output with a comprehensive range of communication options: WLAN 802.11b/g and Bluetooth, as well as USB, Ethernet, modem and RS232. The HF model also supports GPRS communication via the PCMCIA slot.

### Built to Last

With an IP54 rating and the ability to withstand 1.2-meter drops, the RH767's rugged construction minimizes the risk of damage and reduces the cost of repair and replacement. Unlike other devices, all the latest technology is packed into a single unit, with a single power source. This keeps the total cost of ownership to a minimum and decreases the number of devices a worker needs to carry. With a battery life of 24 hours, the RH767 can last up to 2 shifts before the power status indicator tells the user it's time to recharge the battery. Even with all this power and technology, it is the lightest device in its class, weighing only 31.7oz (UHF model).

### Smart Reader Solution

The RH767 comes standard with Unitech's RFID middleware, which supports data filtering and smoothing to minimize data transaction network loading. This program also supports direct links to major data systems, making it simple to integrate RFID technology into existing IT systems and further lowering system integration costs and increasing the speed of deployment. With its dual technology system, the rugged RH767 is the smart RFID solution.

### Main Features

- Dual technology barcode scanner & RFID (HF or UHF) reader
- Embedded RFID middleware
- Integrated barcode scanner
- IP54 rated and 1.2M drop tested
- Lightest in its class
- Windows CE 5.0 Professional Plus operating system
- Built-in WLAN 802.11b/g and Bluetooth connectivity
- GPRS via PCMCIA slot on HF model

### ► System

Operating System: Microsoft CE 5.0 Professional Plus  
CPU: Intel Processor @ 400MHz  
Memory: SDRAM: 64MB, FLASH ROM: 64MB  
Speaker: 8 Ohm speaker as the sound transducer  
Volume controllable by software  
LED Indicator: Dual color (green/red)

### ► Display

240 x 320 reflective TFT Color LCD, touch screen display  
256K simultaneously with backlight

### ► Keypad

36 hard keys, alphanumeric, backlit, includes function keys  
Navigation/cursor keys, 2 side buttons for scanner trigger

### ► Input Devices

Touch screen, stylus, keypad, full alphanumeric  
software keyboard, bar code scanner, and RFID reader.

### ► Laser Bar Code Scanner

Scan Rate 104 scans/sec. ± 12 scans/sec. (bi-directional)  
Scan Angle 47°±3° default / 35°±3° reduced

### ► Symbologies

UPC-A/E, EAN-8/13, Codabar, Code 39,  
Code 39 full ASCII, Code 93, Code 32,  
Interleaved & Std. 2 of 5, EAN 128, Code 11,  
Delta, MSI/Plessey, Code 128, Toshiba

### ► Reader Performance

#### UHF

Frequency: 902~928MHz  
Power Output: 1 Watt  
Antenna: Circular  
Reading Distance: 1.5~1.8M tag dependent  
Tag Support: EPC Class 0, 0+, 1 & Gen2

#### HF

Frequency: 13.56MHz  
Reading Distance: 10~13cm tag dependent  
Tag Support: ISO 15693, ISO 14443 A/B

### ► Communication

USB: 1.0  
Infrared: IrDA 1.2 (SIR) compliant. Up to 115200 baud rate  
PCMCIA: Type II slot accepts GPRS (HF Model only)

### ► Electrical

Sources: 1) 12V DC external adapter, 2A  
2) Rechargeable Lithium-Ion battery pack @ 7.4V, 5000mAh  
3) Rechargeable Ni-MH @3.7V, 150mAh as backup battery  
Battery Life: Up to 24 hours at 1 read per 5 seconds  
Charge: 6 hours with charging cable or with docking station

### ► Mechanical

Shock: Withstands multiple 5 ft. (1.5M) drops to concrete floor  
Length: 7.17" (182 mm)  
Width: 3.46" (88 mm)  
Depth: 5.91" (150 mm)  
Weight: UHF 900g, HF 600g

### ► Environmental

Operating Temperature: -5°C to 50°C  
Storage Temperature: -20°C to 60°C  
Humidity: 5% to 95% RH non-condensing

### ► Docking Station

Interface: USB  
Charging: 6 hours  
Power Input: AC adapter 12V DC@2A

### ► Accessories

Communication / charging cable  
Vehicle cradle  
4-Slot multibay  
AC adapter  
Lithium-Ion battery pack

### ► Development tool

Microsoft Embedded Visual Tools  
Unitech RH767 SDK

### ► Software

Microsoft Biz Talk RFID  
Oracle Sensor Edge Server  
IBM WCTME



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