unitech

RH767

Smart Handheld RFID Solution

The Future's Here - Today!

The RH767 rugged handheld dual RFID and barcode reader features the very latest technology to optimise data collection capabilities now and in the future. It's compact, light weight design will keep a workforce mobile and agile in parallel with the changing technology demands of customers and suppliers. With an integrated barcode scanner and a choice of either HF or UHF RFID scanner, deploying the RH767 means that your 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, so you will be able to quickly develop applications that workers will feel confident to start using immediately, and with minimal training. The PDA form factor and gun grip handle have been designed to keep workers in this comfort zone. It has a dual-position trigger for barcode scanning and the RFID antenna is cleverly integrated into the handle, leaving no external devices or antennas to get in the way of operation. It also has a colour LCD touch screen and a 36 alpha-numeric and function key keypad, making operation and data entry easy in any working conditions.

Dual Technology – Maximum Flexibility

Uncompromising flexibility will keep users closely in step with technology. The HF model is a triple RFID reader, supporting ISO 15693 and ISO 14443A/B, and the UHF model reads multiple tags including EPC Gen 2. The RH767's flexibility extends to data output with a comprehensive range of communication options. It comes with WLAN 802.11b/g and Bluetooth on board. The HF model also supports GPRS communication via the PCMCIA slot.

Built to Last

Unlike other devices on the market, all the technology is packed into a single device with a single power source, keeping down the cost of purchase, repair and replacement. And, with battery capacity 7.4V, 4050mAH, the RH767 can last up to 2 shifts before the power status indicator tells the user it's time to recharge the battery. And, even with all this power and technology, it's the lightest device in its class, weighing only 26.81oz (UHF model). It has an IP55 rated, 1.2 metre drop tested rugged PDA construction that minimises the risk of damage and reduces the total cost of ownership.

Smart Reader Solution

The RH767 comes with Unitech's RFID middleware, making it simple to integrate RFID technology into existing IT systems. The middleware supports direct links to major data systems, further minimising system integration costs and increasing the speed of deployment.

The dual technology, rugged RH767 is the Smart RFID Solution

Main Features

- Dual technology barcode scanner & RFID (HF or UHF) reader
- Lightest in its class
- IP55 rated and 1.2m drop tested
- Embedded RFID Middleware
- Built in Barcode Scanner
- Built in WLAN 802.11b/g, CCX compatible
- Bluetooth connectivity built–in
- GPRS via PCMCIA slot on HF model

Cisco Compatible · Microsoft BizTalk Server 2006 R2 · POWERED BY ORACLE · Windows Embedded Partner unitech

RH767 Specifications

System

Operating System	Microsoft WinCE.NET5.0 Professional Plus.
CPU	Intel Processor 400MHz
Memory	SDRAM:64MB, FLASH ROM:64MB
Speaker	A 8Ω Speaker as the sound transducer. Volume controllable by Software
LED Indicator	dual color (green/red)

Display

240 by 320 Reflective TFT Color LCD, display 256K simultaneously with backlight, with touch screen

Keypad

36 hard-keys backlit keypad including numeric-, alpha- & 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 ASCI, Code 93,Code 32,
Interleaved & Std. 2 of 5, EAN 128, Code 11,
Delta, MSI/Plessey,Code 128, Toshiba

Reader Performance

.UHF

Frequency	862~955Mhz
Power Output	10mW~1W
Antenna	Circular
Reading Distance	Up to 2.4M depends on frequency and application

Tag Support (Depends on reader for different frequency)

EPC C1G1
EPC C1G2 - ISO18000-6C
ISO18000-6B
ISO18000-6A[5]

.HF

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

Communication

USB	1.0
802.11b/g	Support Cisco CCX
PCMCIA	Type II slot accepts GPRS (HF Model only)

Electrical

Sources	1) 12V DC external adapter, 2A 2) Rechargeable Li-Ion battery pack @ 7.4V, 4050mAH 3) Rechargeable Ni-MH @3.7V, 150mAH as backup battery
Battery life	UHF up to 12 hours, HF up to 16 hours
Charge	6 hours with charging cable or with docking station

Mechanical

Shock	Withstands multiple 4 ft. (1.2 m) drops to concrete floor
Length	7.17″ (182 mm)
Width	3.46″ (88 mm)
Depth	5.91″ (150 mm)
Weight	UHF 26.81oz, HF 24.05oz

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
AC adapter
Li-ion battery pack

Development Tool

Microsoft Embedded Visual Tools
Unitech RH767 SDK
Unitech RFID Middleware SDK

Software

Microsoft Biztalk Server 2006 R2
Oracle Sensor Edge Server
IBM WCTME
Oracle database Lite

RH767 Models

RH767 UHF

Unitech's RH767 UHF handheld terminal is a rugged dual technology multi-tag UHF RFID and barcode reader. It can read both EPC Gen 1 and Gen 2 RFID tags and comes with embedded RFID middleware and Windows CE 5.0 for easy integration. The RH767 has a battery life of up to 2 shifts. Connectivity options include WLAN 802.11b/g and Bluetooth. It has an IP55 rated and 1.2 meter drop tested rugged PDA construction.

RH767 HF

Unitech's RH767 HF handheld terminal is a rugged dual technology multi-tag HF RFID and barcode reader. It can read 15693/ISO 1443A/B RFID tags and comes with embedded RFID middleware and Windows CE 5.0 for easy integration. The RH767 has a battery life of up to 24 hours. Connectivity options include WLAN 802.11b/g, Bluetooth and GPRS (via the PCMCIA slot). It has an IP55 rated and 1.2 meter drop tested rugged PDA.