unitech

PA600

Healthcare
RFID Reader

PA600 Healthcare – RFID Reader for Multiple ISO Standards

The Unitech PA600 Healthcare is a compact and rugged mobile computer with an integrated 13.56MHz High Frequency RFID reader. The PA600 Healthcare innovatively supports ISO15693, ISO14443A and ISO14443B standards in a single device, making it ideal for a range of RFID applications.

Supports a Range of Applications

Traditionally RFID devices would only support one ISO standard, requiring a different device for each application, but now, this one device does it all, supporting multiple applications in the same organisation and across a range of markets.

These include ticket inspection for transportation applications, use of the PA600 Healthcare by visitors to exhibits and museums to read tags containing information about exhibits, and enhancing patient security by reading RFID cards to verify nurse and patient identity and record the administration of drugs.

Nowadays, it is a must-go trend of applying RFID technology to replace traditional barcode system in the medical environment; that is, the way is even more safe to reduce vital mistakes happened during treatment. The Unitech PA600 Healthcare is especially designed for healthcare application as its anti-microbial protection material and capability both RFID/2D readers. For example, patients in the hospital would have an identification bracelet carried both RFID tag and 2D barcode to ensure all medical procedures; such as blood-drawing, medicine delivery are treated to the correct person.

Seamless RFID Integration

Supporting Oracle Database Lite and Microsoft BizTalk Server 2006, the PA600 Healthcare allows end users to synchronise RFID data with existing business systems and databases. Support for Wavelink Avalanche enables easier management of wireless devices, decreasing cost and time of deployment.

Lightweight, Ergonomic Design

The PA600 Healthcare is small enough to fit into your shirt pocket, weighting just 310g. But don't let its size fool you - with a 520MHz processor and an IP64 rating the PA600 Healthcare is a powerful industrial device but also medical.

The PA600 Healthcare's rounded shape is designed to fit perfectly into the hand of the user. A full QVGA screen touchscreen enables the operator to view more information about the RFID tags that have been read and an ergonomic alphanumeric keypad makes data entry simple.

Tough Enough for All Environments

The rugged design of the PA600 Healthcare won't let you down. Thanks to its IP64 rating, the PA600 Healthcare is resistant to dust and moisture. Its robust build is able to withstand multiple 4ft drops to concrete without risk of damage. This minimises device downtime, reduces repair costs and delivers a much lower Total Cost of Ownership.

Main Features

- Supports three ISO standards in one device: ISO15693, ISO14443A, ISO14443B
- Windows Mobile 5.0 or Windows CE 5.0
- Integrated HF RFID Reader, Keypad and touch screen, or 2D Bar Code Scanner
- Built-in Bluetooth and WLAN as standard
- IP64 rated
- SDIO expansion slot
- Full range of accessories and chargers
- Supports Oracle Database Lite, Microsoft BizTalk Server 2006 and Wavelink Avalanche

Microsoft BizTalk Server 2006 R2 · POWERED BY ORACLE · Windows Mobile · Microsoft Windows Embedded Partner

PA600 Healthcare
Specifications

System

CPU	Intel PXA270 520MHz
Memory	Flash RAM: 320MB
OS	Windows CE 5.0 Professional Plus

Display

240x320 QVGA, Color Transflective TFT, with Touch Screen & backlight

Keypad

18-key, including numeric key, alpha key and function key

Input Device

HF RFID Reader, Keypad, Touch Screen, and Full Alphanumeric Software, 2D Bar Code Scanner

RFID Reader

Frequency: 13.56MHz

Tag Support: ISO15693, ISO14443A , ISO14443B

Indicator

LED

Communication

USB Host & Client

802.11b / g

Bluetooth

Bluetooth supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync

Audio

MIC

Speaker

Headset Connector

Receiver

Expansion Slot

SDIO Slot

Power Source

Main Battery	3.7V 2200mAH Li-ion battery
Backup Battery	Rechargeable Ni-MH backup battery

Environmental

Operating temperature	-10 ℃ to 50 ℃
Storage temperature	-20 ℃ to 60 ℃
Relative Humidity	5% ~ 95%(non-condensing)
Drop test to Concrete	4 feet
Environmental Sealing	IP64
	Anti-microbial casting/protection (PA600L)
Weight	315g with battery
Dimesion	L149.5 X H35.5 X W85mm

Software

Unitech Software Development Kit

Oracle Database Lite

Wave link Avalanche

Microsoft BizTalk Server 2006 R2

Accessories

4 Slot Multi-Bay	Battery Charger
Desktop Cradle	Extended Battery (To be available in Q4 2008)
Holster	Vehicle Quick Charging Cable
Vehicle Dock	

Regulatory Approvals

CE, FCC, BSMI, VCCI, CCC, RoHS compliant