



PA600

Mobile Clinical Assistant

Challenges

The truth in today's medical environment is that mistakes can and do occur on a frequent basis. Errors lead to the exact opposite of the desired outcome for caregivers and their patients. It is always challenging for caregivers to properly administer and record every step of the care process without error and 100% of the time. Many of the critical errors made by caregivers revolve around their ability to properly verify prescription orders issued by the doctor to the actual drugs being administered. The difference between 10mg and 10g is significant. In addition to the proper dosage of the proper drug, the caregivers can mistakenly administer the wrong prescription order to the wrong patient. This can have devastating and irreversible repercussions.

Solution

Unitech and their Solution Partners have developed a Mobile Clinical Assistant (MCA) Solution for Nursing Information Systems. This MCA Solution is an extension of current Mobile Cart Solutions used by many caregivers. The added mobility provides caregivers better opportunity and ease-of-use for seamless point of care to improvements in patient safety. The solution now allows caregivers to confirm prescription orders and patient identification through bar code and/or RFID tag technology. Before medicines are administered to a patient, the caregiver double confirms correct medication, dosage, and patient information by using the Unitech MCA device. Patient data is updated wirelessly to a HIS database immediately. This not only reduces nursing staff work loading, but also, and most importantly, ensures 100% accuracy in information recording.

Lightweight, Ergonomic Design

The PA600 MCA is small enough to fit into your shirt pocket, weighing just 310g. Its rounded shape is designed to fit perfectly into the hand of the user. A QVGA screen touch screen 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 MCA won't let you down. Thanks to its IP64 rating, the PA600 MCA is resistant to dust and moisture. Its robust build is able to withstand multiple 1.2 meter 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

- Anti-microbial housing
- Integrated HF RFID Reader, keypad and touch screen and 2D Bar Code Scanner
- Supports three ISO standards in one device: ISO15693, ISO14443A, ISO14443B
- Supports Windows Mobile 6.1 classic
- CCX4 certified WLAN radio for safe data exchange
- IP64 rated, 1.2 meter drop threshold
- Full range of accessories and chargers
- SDIO expansion slot



Microsoft BizTalk Server 2006 R2



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PA600 MCA

Specifications

Operation System

CPU	Intel PXA270 624 MHz
RAM	SDRAM 128MB
ROM	Flash ROM 576MB
OS	Windows Mobile 6.1 Classic

Display

3.5" QVGA transfective color with touch screen and backlight - 108 DPI

Keypad

20 keys including numeric keys, alpha key and function key

Indicator

3 Leds indicating charging, scanning, BT and message notification
Vibrator

Integrated reading devices

2D imager, HF-RFID reader

Symbologies

2D Imager
1D codes
Various postal codes, Codabar, Code128/EAN 128, Code 39, Code 93, EAN13, EAN 8, IATA 2 of 5, Matrix 2 of 5, RSS, UPC A, UPC E

2D codes
Datamatrix, EAN-UCC Composite, Maxicode, Micro PDF417, PDF417, QR Code

HF-RFID
HF 13.56 supports ISO15693, ISO14443 A/B

Communication

USB	USB Host & Client
WLAN	IEEE 802.11b/g, CCX4 Certified
PAN	Bluetooth 1.2 Class 2

Power Source

Main Battery	8.14 Watt-Hour	3.7V@2200mAH
Extended Battery	12.21 Watt-Hour	3.7V@3300mAH
Backup Battery	Date/time retention - 2 hours - 40mAH	
Operating time	1scan/ 5 sec. - 3 hours (RFID + 2D)	

Audio

Speaker	1W - Mono
Headset Connector	2.5mm 4 pole; L/R speaker & mic
Receiver	
Microphone	

Expansion Slot

SD Support SDHC up to 32GB

Enclosure

Weight	310g
Dimension	Appr. 149,5mm x 35,5mm x 85mm

Environmental

Operating temperature	-10°C to 50°C
Storage temperature	-20°C to 60°C
Relative Humidity	5% ~ 95% (non-condensing)
Drop Specification	1.2 meter
Sealing	IP64
	Anti-Microbial casting, Reference U.S. Pharmacopeia 26 NF 21, Microbiological Tests (51) Antimicrobial Effectiveness Testing

Software

Unitech Software Development Kit
Unitech Software Utilities
Mobile SIP

12Manage & 12Solutions



In-house developed software to enhance device deployment and remote management. 12[want:to]Solutions including 12Manage improve system reliability, reduce service costs and ensure systems running smoothly.

More info: www.unitechnical.info

Accessories

Charging and communication cradle
4-slots battery charger
4-slots Ethernet cradle
Charging and communication cradle (white/blue housing)
Belt holster (white, anti-microbial material)
Li-Ion battery pack 3,7V 3.300mAh (incl. battery door in anti-microbial material)

Regulatory Approvals

CE, FCC, BSMI, VCCI, CCC, RoHS compliance



Unitech's service program

UnitCare offers customers a high level of security by a reliable, high-quality and effective program for getting your devices serviced quickly. It also drives the hidden costs out of your installations. UnitCare goes beyond the standard warranty with a complete service offer for different need.

More information: www.unitcare.info

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