

PA966

Imaging, Bluetooth Ruggedized Mobility



Easy data entry

The PA966 is the latest addition to the Unitech family of rugged mobile computers based on Microsoft CE.Net mobile operating system. Its design shares the same form-factor as the PA962, but adds the benefit of having a full alphanumeric keypad for fast data entry. The 36 keys are large enough to allow single-hand data entry operation. The blue backlight behind the keypad can be switched off to prolong operation time.

Reliability

The Unitech PA966 is highly suitable to be used outdoors because it is optimized to better withstand cold and heat (-20°C to 50°C). At the heart of the PA966 is the Intel PXA255 Extended Temperature Processor and the large transfective LCD screen is temperature controlled so it keeps its crisp clear image under these outdoors circumstances. The unit is IP54 rated IP54 (splash water and dust resistance).

Scalability Flexibility

The PA966 features an integrated Bluetooth module for short-range wireless communication and still has two free slots (one PCMCIA and one CF) available to suit most connectivity requirements. Unitech offers different models equipped with either a laser scanner or image capture device for 2D barcodes and image capturing. Separate gun grip models are available.

Affordable Value

The combination of the feature-packed PA966 with Unitech's best-in-class after sales support makes this a compelling choice in numerous mobile applications, especially field service, asset management, route accounting, document tracking and document verification. The PA966 shares the same accessories as most other current PA9xx models, enabling users to have a mixed deployment of terminals and in the process lowering and protect their investments.

Main Features

- Microsoft WinCE.NET 4.2 Professional plus
- Intel 400 MHz 32 bits PXA255 CPU
- Bluetooth on board
- Transfective TFT Color Screen providing brilliant & vivid display
- 2D Imager or linear laser scanner
- Transfective TFT Backlit color screen providing brilliant & vivid display
- Backlit 36-key keypad, including numeric-, alpha – and function keys
- 1 PCMCIA Slot & 1 CF Slot
- Operating temperature -20°C ~ 50°C
- IP54 sealing against water & dust
- 1.2M Free drop to concrete floor – minimum downtime

System

Operating System: Microsoft Windows CE.NET 4.2 Professional plus
 Browser: IE 4.0
 CPU: Intel 400 MHz 32 bits PXA255 CPU. Built-in real time clock. Low temperature version
 RAM 64MB, Flash ROM 64MB
 Memory:
 Speaker: A 8W Speaker as the sound transducer
 Volume controllable by software

Display

240x320 transfective TFT backlight color LCD supports 256K color with touch panel and heating system

Keypad

36 hard-key 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 and barcode scanner

Barcode Scanner

Light source : 650±10 nm visible laser diode
 Scan rate: 39±3 scans/sec
 Contrast: 25% absolute dark/light reflectance
 Scan Angle: 53° nominal
 Symbolologies: UPC-A/E, EAN8/13, Codabar, Code 39, Code 39 full ASCII, Code 93, Code 32, Interleaved & Std. 2 of 5, EAN 128, Code 11, Delta, MSI/Plessy, Code 128, Toshiba

Optional 2D Imager

ID codes: Australian post, British post, Canadian post, Codabar, Code 11, Code 128, Code 39, Code 93, EAN 13, EAN 8, IATA 2 of 5, ITF, ISBT, Japanese post, Kix code (nl), Korean post, Matrix 2 of 5, MSI, Planet code, Postnet, RSS expanded, RSS limited, RSS 14, UPC A, UPC E, UPC E1
 2D codes: Aztec, Codablock F, Code 49, Datamatrix, EAN-UCC, composite, Maxicode, Micro PDF417, PDF 417, QR code, Tcif linked C39

Communications

RS232: Full duplex asynchronous communication
 USB: 1.0
 Infrared: IrDA 1.2 (SIR) compliant. Up to 115,200 baud rate
 Wireless: Bluetooth Class II

Electrical

Source: 1) Rechargeable Li-Ion batter pack (13,3 Watt-hours/7.4V@ 1850mAh)
 2) Rechargeable Ni-MH @ 1.2 V, 600mAh as back-up
 battery
 3) 12V DC external adapter, 2A
 Operating time: 10hours at 1 scan per every second with LCD backlight on
 Charging: 3 hours with docking station or charging cable
 Consumption: Standby: 100mA at 8V
 Suspend: 5mA

RFID module

Frequency: 13,56 MHz
 Supporting tags: ISO 15693, Tag it, I-Code, Icode SLI My-d, LR 1512, Temp sense
 Power: 3.3-5V/56mA power down mode
 Reading Distance: Terminal level about 20~50 mm
 Antenna: On board module

Docking Station

Interface: RS232, USB
 Charging: 3 hours
 Power input: AC adapter 12V DC@2A

Usage & Storage

Mechanical
 Shock: Withstands multiple 1.2 meter drops to concrete
 IP rating: IP54, splash water and dust resistant
 Length/Width/Depth: 185mm/87,6mm/43,3mm
 Weight: 500 grams including battery pack

Environmental

Operating temperature: -20°C ~ 50°C
 Storage temperature: -20°C ~ 60°C
 Relative humidity: 5% to 95% RH non-condensing

Software tools

Programming development tool:
 . MS Embedded Visual C++ V4 using Unitech PA970 SDK
 . MS Visual Studio.NET
 . MCL Collection
 . PowerNet Twin Client
 . RFGEN
 . CETERM

Versatile models

PA966-025AB No 400, NET4.2, 36K, BT
 PA966-026AB No 400, NET4.2, 36K, BT, RF
 PA966-825AB No 400, NET4.2, 36K, BT, IMGR
 PA966-826AB No 400, NET4.2, 36K, BT, RF, IMGR
 PA966-925AB No 400, NET4.2, 36K, BT, LSR
 PA966-926AB No 400, NET4.2, 36K, BT, RF, LSR
 PA967-825AB No 400, NET4.2, 36K, BT, IMGR, grip
 PA967-826AB No 400, NET4.2, 36K, BT, RF, IMGR, grip
 PA967-925AB No 400, NET4.2, 36K, BT, LSR, grip
 PA967-926AB No 400, NET4.2, 36K, BT, RF, LSR, grip



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