



PA962 – The logical choice for rugged mobile computing

The driving force behind adapting mobile solutions within your application is based upon business productivity and efficiency. Bearing this in mind, Unitech has designed the PA962. This high-end industrial PDA was specifically designed for mobile use in the field service, warehousing, transportation, retail and other logistic & service environments.

The PA962 offers you durability and endurance

The PA962 has a robust, but above all ergonomic design. It is built to withstand multiple 1,2 meter drops to concrete and is IP54 rated for the resistance against dust and water. This makes the PA962 ideally suited for use in harsh environments and / or outdoor applications.

The large capacity battery pack (13,3 Watt-hours/1800mAH @ 7.4V) ensures you maximum operation with minimum downtime, therefore offering all-round functionality to effectively manage data at the point of activity.

Versatile design for Data Input – Anytime, Anywhere

The PA962 offers you the tools for a fast and accurate data collection. It features a backlit, 19- key keypad with large buttons, a high-resolution colour VGA TFT touch screen and a built-in scanner capable of reading industry standard barcodes. Data collection never has been so easy!

Need to go wireless? The standard PCMCIA (type II)- & CF (type II) allows flexible and on-demand integration of technologies to realize your WLAN or WWAN solution. Furthermore, the slots can also be used for the expansion of memory or the use of a snap on reader etc. Just consider the value of having the freedom to integrate your 802.11b, GPRS, DECT, Bluetooth or any new technology where and when you want it! We view it as a good protection on your investment.

User Friendly

Even though the PA962 features rich functionality, no compromise has been made with regard to its user friendliness. You will find that the terminal fits perfectly into your hand, weighing just 442 grams (incl battery), while the shape of the unit along with the large buttons make it extremely easy to handle. The high contrast, backlit touch screen and backlit keypad make sure that at all times you have a clear, sharp view of all your data collection activities!

Main Features

- Microsoft WinCE.NET4.2 Professional Plus
- Intel 400 MHz 32 bits PXA255 CPU.
- Transflective TFT Color Screen provides brilliant & vivid display
- Backlit 19-key keypad, including numeric-, alpha- & function keys
- User controllable LCD and keypad backlight
- User Accessible PCMCIA Type II slot & CF type I/II for flexible expansion
- Double-cell rechargeable Li-Ion battery pack 7.4V 1800mAH
- IP54 sealed against water & dust
- 1.2M free drop to concrete floor - minimum down time

System

Operating System: Microsoft WindowsCE.NET4.2 Professional Plus
 Browser: IE4.0
 CPU: Intel 400 MHz 32 bits PXA255 CPU. Built-in real time clock.
 Memory: RAM 64 MB, flashROM 64 MB
 Speaker: A 8Ω Speaker as the sound transducer. Volume controllable by Software
 LED Indicator: dual color (green/red for good scan and charging status)

Display

240x320 transfective TFT color LCD supports 256K color, with backlight, with touch panel

Keypad

19 hard-key backlit numeric keypad with navigation-/ cursor-, ESC-, ENT-, FUNC- and Backspace key. Supports alpha mode. 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, 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.

Communication

RS232C: Full duplex asynchronous communication
 USB: 1.0
 Infrared: IrDA 1.2 (SIR) compliant. Up to 115,200 baud rate.
 CF: Type I/ II slot
 PCMCIA: Type II slot
 Both slot accept memory-, modem-, WLAN- & WWAN cards or can be used for installation of i.e. a GPS modem, snap on reader etc.

Electrical

Source: 1) Rechargeable Li-Ion battery pack (13,3 Watt-hours/ 7.4V@ 1800mAh/)
 2) Rechargeable Ni-MH @1.2V, 600mAh as backup battery
 3) 12V DC external adapter, 2A
 Operating time: 10 hours at 1 scan per every 5 seconds with LCD backlight on
 Charging: 3 hours with docking station or charging cable
 Consumption: Standby: 100mA at 8V
 Suspend: 5mA



Usage & Storage

Mechanical

Shock: Withstands multiple 1.2 meter (4ft.) drops to a concrete floor
 IP rating: IP54, splash water and dust resistant
 Length / Width / Depth: 185mm / 87.6mm / 43.3mm
 Weight: 442g with battery pack

Environmental

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

Docking Station

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

Accessories

Spare Li-ION battery pack
 Charging/communication cradle
 Easy car holder
 Professional vehicle kit
 2-slot battery charger
 4-slot battery charger
 RS232 charging/communication cable
 USB charging/communication cable
 USB null-modem cable for cradle
 RS232 null-modem cable for cradle
 Holster
 External Antenna Kit
 RFID Reader Kit

Software & Tools

Programming development tool:

- MS Embedded Visual C++ V4 using Unitech PA962 SDK
- MS Visual Studio.NET
- RFGen
- Powernet TN client
- MCL Collection
- Naurtech

Other Tools:

- Auto Installer: A unique tool allowing the device to return to a pre-defined status after a cold-boot, reset etc. without the intervention of the user. It restores the default Operating System, applications and connection settings. Additional option is to have the WinCE-skin removed from the system, such that the operator can only run the application(s) designed to fulfill his / her task.
- Terminal Emulator
 - Microsoft Terminal Services
- Development API's (Application Programming Interface)
 - CEUtility, .NET compact framework, Quick (Binary) Searching, Printing, Scan key, Scanner, PCMCIA/CF control
- Pre-installed drivers for:
 - Wired LAN Connectivity
 - 802.11 Wireless LAN Connectivity
 - Modem, GSM, GPRS, wired and wireless WAN Connectivity
- Additional tools
 FlashMan, RegFuncKey, MultiBay, UniPing, ScreenRotate

Versatile models

PA962-020AB; No scanner WinCE.NET 4.2
 PA962-022AB; No scanner WinCE.NET 4.2 with integrated RF 802.11b
 PA962-920AB; With scanner WinCE.NET 4.2
 PA962-922AB; With scanner WinCE.NET 4.2 with integrated RF 802.11b
 PA963-920AB; Same as PA962-920AB but with integrated gungrip
 PA963-922AB; Same as PA962-922AB but with integrated gungrip

PA962-04V1