

# PA962

## Color Bluetooth Rugged Mobile



### 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/1850mAh @ 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) slots allows flexible and on-demand integration of technologies to realize your WLAN or WWAN solutions. Furthermore the integrated Bluetooth module enables you to us a variety of peripherals such as printers etc. 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 X-Scale CPU
- Transflective TFT Color Screen provides brilliant & vivid display
- Backlit 19-key keypad, including numeric-, alpha- & function keys
- User controllable LCD and keypad backlight
- Bluetooth on board
- User Accessible PCMCIA Type II slot & CF type I/II for flexible expansion
- RFID 13.56 MHz (optional)
- Double-cell rechargeable Li-Ion battery pack 7.4V 1850mAh
- IP54 sealed against water & dust
- 1.2M free drop to concrete floor - minimum down time

### System

Operating System: Microsoft WindowsCE.NET4.2 Professional Plus IE4.0  
 Browser: CPU: Intel 400 MHz 32 bits PXA255 X-Scale 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 touch screen supporting 256K colors, with backlight

### 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 client  
 Infrared: IrDA 1.2 (SIR) compliant. Up to 115,200 baud rate.  
 CF: Type I/ II slot  
 PCMCIA: Type II slot  
 Both slots accept memory-, modem-, WLAN- & WWAN cards or can be used for installation of i.e. a GPS modem, snap on reader etc.  
 Bluetooth: Class II

### Electrical

Source: 1) Rechargeable Li-Ion battery pack (13.3 Watt-hours/ 7.4V@ 1850mAh)  
 2) Rechargeable Ni-MH @1.2V, 600mAh as backup battery  
 3) 12V DC external adapter, 2A (when cradled)  
 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  
 Suspend: 5mA

### RFID module (optional)

Frequency: 13.56 MHz  
 Supporting tags: ISO 15693, Tag it, I-Code, Icode SLI My-d, LRI512, Temp Sense  
 Power: 3.3-5V/56mA power down mode  
 Reading Distance: Terminal level about 20 ~ 50 mm  
 Antenna: Built-in module

### Docking Station

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

### 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

### Software & Tools

#### Programming development tool:

- MS Embedded Visual C++ V4 using Unitech PA962 SDK
- MS Visual Studio.NET
- 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.
- 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
- Additional tools  
 FlashMan, RegFuncKey, MultiBay, UniPing, ScreenRotate
- Back-up utility
- UWWWI

### Versatile models

PA962-020AB No scanner WinCE.NET 4.2  
 PA962-022AB No scanner WinCE.NET 4.2, with integrated RF 802.11b  
 PA962-0220AB No scanner WinCE.NET 4.2, with integrated RFID  
 PA962-0222AB No scanner WinCE.NET 4.2, with integrated RF 802.11b and RFID  
 PA962-920AB With scanner WinCE.NET 4.2  
 PA962-922AB With scanner WinCE.NET 4.2, with integrated RF 802.11b  
 PA962-9220AB With scanner WinCE.NET 4.2, with integrated RFID  
 PA962-9222AB With scanner WinCE.NET 4.2, with integrated RF 802.11b and RFID  
 PA963-920AB Same as PA962-920AB but with integrated gungrrip  
 PA963-922AB Same as PA962-922AB but with integrated gungrrip  
 PA963-9220AB Same as PA962-9220AB but with integrated gungrrip  
 PA963-9222AB Same as PA962-9222AB but with integrated gungrrip  
 PA962-025AB No Scanner WinCE.NET 4.2 with integrated BT  
 PA962-026AB No Scanner WinCE.NET 4.2 with integrated BT and RF 802.11b  
 PA962-925AB With Scanner WinCE.NET 4.2 with integrated BT  
 PA962-926AB With Scanner WinCE.NET 4.2 with integrated BT and RF 802.11b  
 PA963-925AB Same as PA962-925AB but with integrated gungrrip  
 PA963-926AB Same as PA962-926AB but with integrated gungrrip

### Accessories

1400-201017 Spare Li-ION battery pack  
 5000-600627 Charging/Communication cradle  
 PA9XX-CAR001 Easy car holder  
 PA9XX-CAR02CK Professional vehicle kit  
 5100-600635 2-slot battery charger  
 5100-600636 4-slot battery charger  
 1550-600622 RS232 charging/communication cable  
 1550-600623 USB charging/communication cable  
 1550-600626 USB null-modem cable for cradle  
 1550-600682 RS232 null-modem cable for cradle  
 381408 Holster



PA962-06V3

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