



PA960 – 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 PA960. This high-end terminal was specifically designed for mobile use in the field service, warehousing, transportation, retail and other logistic & service environments.

The PA960 offers you durability and endurance

The PA960 has a robust but above all ergonomic design. It is built to withstand multiple 1,2 meter drops to concrete and IP54 rated as standard, therefore dust and water-resistant. This makes the PA960 ideally suited to harsh environments as well as capable of outdoor use.

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 PA960 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 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 PA960 is so function rich, 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), and 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

- Double-cell rechargeable Li-Ion battery pack 7.4V 1800mAh
- User Accessible PCMCIA Type II slot & CF type I/II for flexible expansion
- Reflective TFT Colour Display providing brilliant & vivid user interface
- Backlit 19-key keypad, including numeric-, alpha- & function keys
- IP54 sealed against water & dust
- 1.2M free-drop to concrete floor
- Powered by Microsoft WinCE 3.0 or WinCE.NET 4.2 (available from November 2003)
- Intel StrongARM SA 1110 Processor @206MHz

System

Operating System: Microsoft Windows CE 3.0 or WinCE.NET 4.2 *
 IE4.0
 CPU: Intel StrongARM 206MHz
 Memory: RAM 64 MB, flashROM 32 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 reflective TFT backlit color LCD touch screen.
 Supports 65.000 colors.

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.

Resolution

5.0 mils
 7.5 mils
 10.0 mils
 15.0 mils
 20.0 mils
 40.0 mils
 55.0 mils
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Depth of field

2-5.2"
 1.7-8"
 1.8-10"
 1.9-13"
 *-20"
 *-25"
 *-30"

Depends on symbol width

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 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 (7.28") / 87.6mm (3.49") / 43.3mm (1.70")
 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

2-slot battery charger
 4-slot battery charger (available from December 2003)
 4-slot multi-bay (available from December 2003)
 vehicle docking station (available from December 2003)
 Carrying case
 Spare Li-ION battery pack
 Communication-/ charging cable
 Various 3rd party WLAN-/ WWAN- and modem cards

Software & Tools

Programming development tool:

- Microsoft Embedded Visual Tools, Microsoft.NET Compact framework, Unitech PA960 SDK, RFGGen, Powernet TN client (available November 2003)

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, Quick (Binary) Searching, Printing, Scan key, Scanner
- Pre-installed drivers for:
 - Wired LAN Connectivity
 - 802.11 Wireless LAN Connectivity
 - Modem, GSM, GPRS wired and wireless WAN Connectivity
- Additional tools
 - Monitor, FlashMan, RegFuncKey, MultiBay, UniPing

* available from November 2003



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