

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 IP65 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 use a variety of peripherals such as printers etc. Furthermore, the slots can also be used for the expansion of memory. Just consider the value of having the freedom to integrate your 802.11b/g, GPRS, 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 Win CE 5.0
- 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 of features
- RFID 13.56 MHz (optional)
- UMTS/EDGE (optional)
- 802.11 b/g (optional)
- Double-cell rechargeable Li-Ion battery pack 7.4V 1950mAh
- IP65 sealed against water & dust
- 1.2M free drop to concrete floor - minimum down time

PA962

Specifications

SYSTEM

Operating System	Microsoft Win CE 5.0
Browser	IE 6.0
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
Symbologies	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/Plessy, Code 128, Toshiba.

COMMUNICATIONS

RS232C	Full duplex asynchronous communication
USB	1.0 client

WIRELESS COMMUNICATIONS

Infrared	IrDA 1.2 (SIR) compliant. Up to 115,200 baud rate
Bluetooth	Class II V1.2, Typical working range 5 - 10 meters 802.15
WLAN	Internal Antenna Summit CF Card, WiFi b/g Summit secure client Built-in diversity antenna Output power: ETSI compliant
Data rates	802.11b: 11, 5.5, 2, 1 Mbits/second DDSS 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbits/sec OFDM
Authentication:	WPA, WPA PSK, WPA2, WPA2 PSK, CCKM (Cisco Central Key Management)
Enhanced authentication:	LEAP, EAP fast, EAP tls, PEAP gtc, PEAP-mschap V2
Encryption:	Web, TKIP, CKIP (Cisco-TKIP), AES

INTERNAL EXPANSION SLOTS

CF	1x Type I/II slot
PCMCIA	1x Type II slot

ELECTRICAL

Source	1) Rechargeable Li-Ion battery pack (13.3 Watt-hours/ 7.4V@ 1950mAh) 2) Rechargeable Ni-MH @1.2V, 600mAh as backup battery for data retention 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 at room temperature
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

MECHANICAL

Shock	Withstands multiple 1.2 meter (4ft.) drops to a concrete floor
IP rating:	IP65, totally protected against dust and low pressure jets of water
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
- 32WAN

VERSATILE MODELS

PA962-9220ABG	With scanner Win CE 5, with integrated RFID
PA962-9222ABG	With scanner Win CE 5, with integrated RF 802.11b and RFID
PA963-9220ABG	Same as PA962-9220AB but with integrated gungrip
PA963-9222ABG	Same as PA962-9222AB but with integrated gungrip
PA962-025ABG	No Scanner Win CE 5 with integrated BT
PA962-026ABG	No Scanner Win CE 5 with integrated BT and RF 802.11b
PA962-925ABG	With Scanner Win CE 5 with integrated BT
PA962-926ABG	With Scanner Win CE 5 with integrated BT and RF 802.11b
PA963-925ABG	Same as PA962-925AB but with integrated gungrip
PA963-926ABG	Same as PA962-926AB but with integrated gungrip
PA962-927UABG	PA962 with Scanner Win CE 5 and integrated BT, UMTS/EDGE/GPRS
PA962-929UABG	PA962 with Scanner Win CE 5 and integrated BT and RF 802.11b/g, UMTS/EDGE/GPRS

ACCESSORIES

202450G	Spare Li-ION battery pack
5000-600627G	Charging/Communication cradle
PA9XX-CAR01G	Easy car holder
PA9XX-CAR02CKG	Professional vehicle kit
5100-600635G	2-slot battery charger
5100-600636G	4-slot battery charger
1550-600622G	RS232 charging/communication cable
1550-600623G	USB charging/communication cable
5000-601340G	4-slot multi bay charger
1550-600626G	USB null-modem cable for cradle
1550-600682G	RS232 null-modem cable for cradle
381408	Holster