

PA966

Imaging, Bluetooth Ruggedized Mobility



EASY DATA ENTRY

The PA966 shares the same iF award winning design from PA950 yet offering the benefit of having a full alphanumeric keypad for extensive data entry. The 36 keys are large enough to allow single-hand data entry operation while the backlit keypad allows the user to use the unit even in dark environments. Unitech offers a variety of models equipped with either a 2D imager or laser scanner without or with integrated gun grip to further enhance ergonomics in scan intensive applications.

OUTDOORS USE

The Unitech PA966 is highly suitable to be used outdoors because it is optimized to withstand cold and heat (-20°C to 50 °C Depending on configuration) better. At the heart of the PA966 is the Intel PXA255 X-scale extended temperature processor whereas the large transreflective LCD screen is temperature controlled to keep a crystal clear image under these outdoors circumstances. The unit is IP64 rated (totally protected against dust and splash water resistant).

SCALABILITY FLEXIBILITY

The PA966 offers a standard PCMCIA (type II) and CF (type II) slot allowing flexible and on-demand integration of technologies to realize your WLAN or WWAN solutions. The integrated Bluetooth module enables you to use a variety of peripherals for a short-range wireless communications such as mobile printers etc.

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 Win CE 5.0
- Intel 400 MHz 32 bits PXA255 X-Scale CPU
- Bluetooth class II on board
- 2D Imager or linear laser scanner
- Transreflective TFT Backlit color screen providing brilliant & vivid display
- Backlit 36-key keypad, including numeric-, alpha – and function keys
- 1 PCMCIA type II & 1 CF slot type II
- Operating temperature -20°C ~ 50°C (Depending on configuration)
- IP64 sealing against water & dust
- 1.2M Free drop to concrete floor – minimum downtime

PA966

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. Low temperature version
Memory	RAM 64MB, Flash ROM 64MB
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

36 hard-key backlit keypad including numeric-, alpha- & function keys. Navigation-/cursor keys, 2 side buttons for scanner trigger

INPUT DEVICES

Touch screen, stylus, full alphanumeric keypad and keyboard software, barcode scanner (laser or imager)

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, EAN8/13, 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

2D IMAGER

1D 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

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 Internal Antenna
WLAN	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

DOCKING STATION

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

ELECTRICAL

Source	1) Rechargeable Li-Ion battery pack (13,3 Watt-hours/7.4V@ 1950mAh) 2) Rechargeable Ni-MH @ 1.2V, 600mAh as back-up battery for retaining data 3) 12V DC external adapter, 2A
Operating time	~10 hours at 1 scan per every second 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, LR1512, Temp sense
Power	3.3-5V/56mA power down mode
Reading Distance	Terminal level about 20~50 mm
Antenna	Built-in module

MECHANICAL

Shock	Withstands multiple 1.2 meter drops to concrete
IP rating	PA966: IP64, totally protected against dust and sprays of water PA967: IP55, protected against and low pressure jets of water
Length/Width/Depth	185mm/87,6mm/43,3mm
Weight	500 grams including battery pack

ENVIRONMENTAL

Operating temperature	-20°C ~ 50°C (Depending on configuration)
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 PA966 SDK
 - MS Visual Studio.NET
 - MCL Collection
 - CETERM
 - Variety of Unitech Software tools; 32WAN, Back-up utility, Auto Installer

VERSATILE MODELS

PA966-025ABG	PA966 with 400Mhz, CE 5.0, BT
PA966-026ABG	PA966 with 400Mhz, CE 5.0, RF, BT
PA966-825ABG	PA966 with imager, 400Mhz, CE 5.0, BT
PA966-826ABG	PA966 with imager, 400Mhz, CE 5.0, RF, BT
PA966-925ABG	PA966 with laser scanner, 400Mhz, CE 5.0, BT
PA966-926ABG	PA966 with laser scanner, 400Mhz, CE 5.0, RF, BT
PA967-825ABG	PA966 with imager, 400Mhz, CE 5.0, BT & gun grip
PA967-826ABG	PA966 with imager, 400Mhz, CE 5.0, RF, BT & gun grip
PA967-925ABG	PA966 with laser scanner, 400Mhz, CE 5.0, BT & gun grip
PA967-926ABG	PA966 with laser scanner, 400Mhz, CE 5.0, RF, BT & gun grip



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