



PA690

Rugged Handheld Computer

Stay competitive

The Unitech PA690 is a rugged handheld computer designed to empower your mobile workforce in today's aggressive business environment. As productivity and efficiency define the benchmark for success, the PA690 provides field-based workers with a host of data collection tools and a comprehensive wireless communication platform, all in a compact, durable and ergonomic form factor.

Faster and more productive

The PA690 is powered by an 806MHz Marvell PXA320 processor and runs on Windows Embedded Handheld 6.5, so you have the power to run even the most demanding mobile solutions. With 256MB of Mobile DDR SDRAM and 512MB of NaND Flash, the PA690 boasts ample internal memory. Also featuring a microSD expansion slot, the PA690 can support an additional 32GB of storage capacity for data-intensive applications.

Mobility at its best

Able to withstand multiple 5-foot drops to concrete and IP65-sealed against water and dust, the PA690 is an extremely rugged outside-the-four-walls device you can count on to perform under harsh conditions. This durable design mitigates device downtime that negatively impacts business critical applications.

The PA690 features a comprehensive wireless platform that includes integrated GPS, Bluetooth, WiFi and 3.5G connectivity. The PA690's dual external antennas for WWAN and WLAN ensures excellent wireless connectivity and performance. Field mobile workers can easily access information and accelerate their workflow while they're on the go.

Data collection made easy

Equipped with multiple data collection options, the PA690 helps enhance productivity and efficiency. Standard models include an integrated 1D laser scanner, 5.0 megapixel camera with flash for image and video capture, QWERTY keypad and sunlight-readable color touchscreen. The 3.8" backlit WVGA display is our highest resolution screen, making it easier for you to view pertinent information.

Accessories and options

Not all mobile applications are alike, so the PA690 offers various model options and accessories to fit your needs. Customize your device with additional features, such as a 2D imager scanner, HF RFID reader or gun grip for scan intensive applications. Unitech also offers a wide selection of accessories for your PA690. Complement your mobile solution with various communication and charging cradles, extended batteries, car kits and headsets - anything and everything you'll need to make the PA690 the ideal rugged handheld solution for your mobile workforce.

Main Features

- 3.8" WVGA high resolution LCD
- Comprehensive wireless platform that includes Bluetooth, CCX4 certified WiFi, 3.5G WWAN, GPS
- Dual external antennas for WWAN and WLAN ensures excellent wireless connectivity and performance
- u-blox® 6 High Performance GPS chipset supporting AssistNow® AGPS and GALILEO system
- Dual microphone designed with echo cancellation and noise reduction for clear voice communication
- Optional QWERTY or numeric keypad
- 5.0 megapixel autofocus camera with flash
- Unitech MPEG-4 video codec

System Features

CPU	806MHz Marvell PXA320 Processor
Memory	Mobile DDR: 256MB NAND Flash: 512MB
OS	Windows Embedded Handheld 6.5 Professional and Classic

Display

Transflective color 3.8" full WVGA with backlight 800 x 480 sunlight readable LCD

Keypad

44-key QWERTY keypad
26-key Numeric keypad

Camera / Photos / Video

5.0 megapixel autofocus camera with flash
Unitech MPEG-4 video codec (VGA resolution)

Notification

LEDs, Vibrator

Symbologies

1D Barcode Engine

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

2D Imager (optional)

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, Teif lonked C39

RFID Reader

Frequency: 13.56MHz
Tag Support: ISO15693, ISO14443A, ISO14443B

Audio

Dual Microphone with Echo Cancellation and Noise reduction design
1W Speaker
3.5mm headset jack
Receiver

Expansion Slot

microSD microSD slot with SDHC Support (up to 32GB)
Dual microSD slots in HF RFID model

Location

GPS u-blox® 6 High Performance GPS chipset
AssistNow® Online and AssistNow® Offline A-GPS services,
OMA SUPL compliant
Supports new European satellite system GALILEO

Communication

USB	1.1 Host & Client
WLAN	IEEE 802.11 a/b/g, CCX4 Compliant
PAN	Bluetooth 2.1 + EDR
WWAN	3.5G five-bands, GSM/GPRS 850MHz, 900MHz, 1800MHz and 1900MHz, UMTS WCDMA/HSDPA 50MHz, 1900MHz, 2100 MHz / GPRS EDGE

Power Source

Main Battery	8.14 Watt-Hour 3.7V @2200 mAh 14.8 Watt- Hour 3.7V @4000 mAh
Backup Battery	Ni-Mh battery Supports 2 hours backup

Enclosure

Weight	390g(13.76 oz) with 2200mAh Battery 430g(15.17 oz) with 4000mAh Battery
Dimension	17.7 cm (7 in) x 7.4 cm (2.9 in) x 4 cm (1.6 in) (Antenna length excluded)

Environmental

Operating temperature	14°F to 122°F (-10°C to 50°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Relative Humidity	5% ~ 95% (non-condensing)
Drop Specification	1.5m (5 feet)
Sealing	IP65

Software

Microsoft Visual Studio 2005/2008
Mobile SIP(VoIP)
Auto Installer

Mobile Device Management Software and Service

12Manage	Software and configuration management, Asset tracking, remote diagnostics and performance measurement
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Accessories

4-slot multi-bay Ethernet cradle
4-slot battery charger
Field Installable Gun grip
USB cradle with battery charger
Ethernet cradle with battery charger
Main battery (2200mAh, 4000mAh)
USB communication and charging cable
RS232 Communication cable
AC adaptor
Mono 3.5mm headset
Car kit

Regulatory Approvals

CE, FCC, BSMI, VCCI, CCC, RoHS compliance



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