PA820
Ultra Rugged Industrial PDA

Unitech, a global provider of automatic identification and data capture technologies, is pleased to announce availability of the PA820 rugged industrial PDA. This PDA is super-durable and powerful, it includes with multiple connectivity and a wide range of functionality. Featuring waterproof capability and MIL-STD-810G certification, unitech PA820 is ready to survive in any kinds of environments.

Versatile Capabilities

The PA820 has a capacitive LCD with 480 x 640 pixel resolution and measures 3.5 inches diagonally. The LCD has an adjustable backlight which is designed to reduce reflections that allows users can easily stay focus on the screen even in all lighting conditions. It comes with a fast and powerful 1 GHz TI processor. Running with Windows Embedded Handheld 6.5 operating system, PA820 combines with industry-leading 1D laser scan engine and user-friendly alphanumeric keyboard, it allows users can speed up data entry and capture barcodes easily in real-time that improves staff productivity and reduces operating costs.

Cutting-edge wireless technology

On the wireless side, the PA820 comes with integrated 802.11 a/b/g/n WiFi as well as Bluetooth 2.1 + EDR. It was programmed with great multiple wireless to support 3.75G radio technology with quad-band UMTS/HSPA+ (850/900/1900/2100MHz) and dual-band GSM (850/1900 MHz) that delivers high flexibility for field services workers to get connected anywhere. Supplemented with a 5 megapixel camera and comprehensive GPS logging functionality are further proof that PA820 is a cutting-edge device for a variety of applications.

Toughness and Reliability

The PA820 is built to enable high performance and reliability in the challenging environments. PA820 is rugged enough to drop from the 1.8 meters onto concrete. In addition, it has IP66 certification, completely sealing durable housing against dust and moisture to withstand high pressure water jets. Not only that, but this device meets sturdy MIL-STD-810G military standard, boasting shock resistance, anti-vibration and together with a wide operating temperature range of -20°C to 60°C.

Aside from all of its benefits, PA820 is compact enough to hold in one hand. With great ergonomic design, it creates unmatched data collection performance and high reliability to any applications such as military, logistics, field service and harsh environment.

Features

- Windows Embedded Handheld 6.5 operating system
- Ultra-Rugged Construction: IP66 rated, 1.8M drop and MIL-STD-810G certified
- Compact design: only 452g
- Large 3.5 -inch color TFT multi-touch sunlight-readable display
- Built in 1D scanner and 5 Megapixel camera
- Latest Bluetooth v2.1, GPS, and WiFi 802.11 a/b/g/n
- Wide Temperature Range: Operating: -20℃~ +60℃/ Storage: -30℃~ +70℃

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Expansion Slot

microSD — microSD slot with SDHC Support (up to 32GB)

Communication

USB	USB 2.0 Client and Host
WLAN	IIEEE 802.11 a/b/g/n
Bluetooth	Bluetooth 2.1 + EDR
WWAN	3.75G Radio
	UMTS / HSPA+, 3GPP release 6 / 7
	USA:
	Dual Band UMTS/HSPA+ (850, 1900 MHz),
	Dual-Band GSM (850/1900 MHz)
	EU:
	Dual Band UMTS/HSPA+ (900/2100 MHz),

Power Source

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

Enclosure

Weight	452g with Battery
Dimension	163.8x87.4x36.7 (mm)

Environmental

Operating temperature	-4°F to 140°F (-20°C to 60°C)
Storage temperature	-22°F to 158°F (-30°C to 70°C)
Charging Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	5% ~ 95% (non-condensing)
Drop Specification	1.8 meter MIL-STD 810G,Method 516.6, Procedure IV
Sealing	IP66
Vibration and Shock test	MIL-STD-810G, Method 514.6, Procedure I MIL-STD-810G,Method 514.6,Procedure II, Category 5

System Features

CPU	TI AM3715 1GHz
Memory	512MB Mobile DDR RAM
	512MB NAND Flash
OS	Windows Embedded Handheld 6.5 Professional and Classic
Languages support	English, Simp. Chinese, Traditional Chinese, Japanese, Spanish, German, French

Display

Capacitive touch pannel
 3.5" Color 480 x 640 sunlight readable LCD

Camera / Photos / Video

5.0 megapixel autofocus camera with Flash
support SW MPEG decoder / encode

Symbologies

1D Barcode Engine

UPC-A/E, EAN-8/13, Codabar, Code 39, Code 39 full ASCI, Code 93,Code 32, Interleaved & Std. 2 of 5, EAN 128, Code 11, Delta, MSI/Plessey, Code 128, Toshiba

Software

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

Notification

LEDs, Vibrator

Audio

1W Speaker
3.5mm headset jack
Receiver

Keypad

20 Numeric and functionable keys, 2 Scanner keys, 1 Power key

Mobile Device Management Software and Service

MoboLink®
Device Management;Application Management;Event Triggers

Regulatory Approvals

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

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