

# iPA280



**Bringing secure payment to the Mobile Computing World, Ingenico's iPA280 is the first truly mass-market payment PDA.**

Connecting consumers to a host of value-added services, the compact iPA280 dramatically increases POS upsell opportunities and delivers maximum return on your terminal investments. Its open and flexible development platform supports the cost effective and rapid development of bespoke revenue-generating applications that make a real difference to your bottom line.

Capable of managing a comprehensive range of transactions in a single device, the iPA280 eliminates the need for multiple terminals and increases the speed and convenience of each and every consumer interaction. Maximizing usability **for retail, hospitality, transportation and mobile services sectors**, the feature-packed iPA280 contains integrated smart card, magnetic stripe and contactless readers alongside an easy-load thermal printer and barcode reader for data capture and acquisition.

Mobility is assured with extensive wireless connectivity while location based services are delivered through the internal GPS receiver. The iPA280 slashes operational cost and enhances operator performance – opening up a new world of 'on-the-move' sales and service delivery opportunities.



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## Security

The iPA280 is PCI PED V2.x and EMV certified to deliver security as standard for consumers and merchants alike. A powerful 32-bit RISC crypto-processor provides a uniquely scaleable high-performance platform to support a host of new generation security applications, improving transaction speed and reliability.

## Performance

The iPA280 transforms the mobile POS environment to enable truly personalized service and operational agility. This high performance PDA delivers instant access and interaction with online or connected applications – from web based business applications to online databases and GPS location services – alongside fully dynamic payment and data capture capabilities. From stock or timetable queries to order processing and loyalty data, the iPA280 makes it possible for mobile users to access complex business information systems previously only available on their desktops.

## Design/Ergonomics

Engineered for mobility, the versatile iPA280 is compact, stylish and lightweight – yet fully rugged to cope with even the toughest working environment. The most advanced payment PDA on the market, it features a modern user-friendly full color graphical interface and the convenience of touch screen activation. Significantly, by ensuring payment and PDA functions are accessed separately by operator and consumer, confusion is eliminated, security and fast access to business applications is guaranteed, while ease of use is assured. All of which enhances workforce productivity and customer service delivery.

## Connectivity/Mobility

Equipped with an extensive choice of connectivity – including GSM, GPRS, Edge, WiFi, Bluetooth and USB – the iPA280 ensures mobile operatives stay connected and contactable at all times. Ultra fast data and payment transaction rates assure fast and seamless payments processing, order tracking and delivery of online operations in the field. The iPA280 also enables a host of innovative customer-facing services that add a new dimension to each and every customer interaction.

## Software Development

Ingenico delivers incremental revenue today and future proofs your terminal investments of tomorrow. The iPA280 is backwards compatible with all 800+ Ingenico services and applications. Uniquely, its open and flexible (Windows based) environment taps into the largest application development community in the world, ensuring brands can create or license bespoke applications that add real value to consumer audiences while delivering significant revenue growth.

## Field Services

To reduce total cost of ownership and enable businesses to maximize their terminal investments, Ingenico provides a comprehensive range of terminal and software update and management services – both remotely and in the field. Fully certified professionals and local language helpdesks operate in every territory to ensure Ingenico is on hand to support customers 24 hours a day, seven days a week, 365 days a year. Quite simply, the best network in the world.



PDA characteristics	
<b>Main processor</b>	Marvell PXA-300 (XScale ARM) @ 624 MHz
<b>Internal Memory</b>	Memory 256 MB Flash, 128 MB RAM
<b>External Memory</b>	µSD, HC SD supported up to 32GB
<b>Operating System</b>	WinCE 6 pro
<b>Display</b>	VGA (640 x 480), 3.5" size (54 x 72 mm), TFT transreflective
<b>Touch screen</b>	Resistive, stylus and finger operated
<b>Keypad</b>	12 numeric keys with alphanumeric entry possibility
	Call send/call end
	4 direction navigation keys + validation key in the center 2 programmable keys/3 soft keys/4 function keys
<b>Printer</b>	Thermal printer with graphic mode, easy paper roll loading 8 to 18 lines/second, 24 characters/line Paper roll width 58 mm x 25 mm diameter, length 5 to 8 m
<b>Barcode reader</b>	1D/2D, all major standards supported, imager VGA 256 grey scale
<b>Communications</b>	Bluetooth 2.0, class II
	Wifi 802.11 b/g GSM/GPRS/Edge, Quad band 850/900/1800/1900
<b>GPS</b>	Sirf III, NMEA data output
	ISO 14 443 (1,2,3) A/B
<b>Contactless</b>	Mifare
	Calyppo
	Felica upon request
<b>SAMS (Secure Access Module)</b>	2 SAM, Asynchronous, VCC = 5V, 3V, 1.8V
<b>SIM</b>	2 SIM
<b>Connections on terminal</b>	USB 2.0 OTG
<b>Base</b>	Charge + additional battery charge + connections
<b>Connections on base</b>	Ethernet; RS232; USB2.0 OTG
<b>Audio</b>	Speaker, TTS enabled
<b>Phone</b>	Microphone and earpiece, 3.5 mm headset connector
<b>Batteries</b>	Li-ion, 3800 mAh
<b>Size</b>	190 x 86 x 42 mm
<b>Weight</b>	590g (including paper roll, battery and payment module)
<b>Environment</b>	Operating temperature: -10° to +50°C
	Operating & storage humidity: 5% to 90%
	Storage: -20°C to 60°C
	IP54 Drop resistance: 1.5 m on concrete (MIL-STD 810F)
<b>Certifications</b>	Electrical safety IEC 950 - UL1950
	EMC: EN55022; EN55024; EN61000; ICES (Canada)
	FCC part 15, Class A digital device as well as CE approvals
<b>In-pack accessories included</b>	Power supply/Battery Paper Roll
<b>SW tools</b>	SDK, PDA Dev Helper, Payment Communication Layer (PCL)

Secure Payment Module characteristics	
<b>Main processor</b>	Thunder (ARM9), 450 Mips
<b>Crypto processor</b>	Booster (ARM7), 50 Mips
<b>Memory</b>	128 MB Flash, 16 MB RAM
<b>Display</b>	Full graphic 128 x 64 monochrome
<b>Keypad</b>	12 numerics keys
<b>Smart Card Reader</b>	Abort, Correct, Validate, 4 function keys
<b>Magnetic card reader</b>	Synchronous and asynchronous ISO 1/2/3
<b>Contactless</b>	Compliance with PayPass (PayPass, ISO/IEC 14 443, implementation specification, version 1.3, level I & II) Compliant Paywave V2.0.2
<b>SAMS (Secure Access Module)</b>	2 SAM, Asynchronous, VCC = 5V, 3V, 1.8V
<b>Connections on terminal</b>	USB to PDA
<b>Batteries</b>	Shared with PDA
<b>Certifications</b>	PCI PED 2.x et EMV L1 et L2