

PAYment PDA

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	
Main processor	Marvell PXA-300 (XScale ARM) @ 624 MHz
Internal Memory	Memory 256 MB Flash, 128 MB RAM
External Memory	µSD, HC SD supported up to 32GB
Operating System	WinCE 6 pro
Display	VGA (640 x 480), 3.5" size (54 x 72 mm), TFT transreflective
Touch screen	Resistive, stylus and finger operated
Keypad	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
Printer	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
Barcode reader	1D/2D, all major standards supported, imager VGA 256 grey scale
Communications	Bluetooth 2.0, class II
	Wifi 802.11 b/g
	GSM/GPRS/Edge, Quad band 850/900/1800/1900
GPS	Sirf III, NMEA data output
Contactless	ISO 14 443 (1,2,3) A/B
	Mifare
	Calypso
	Felica upon request
SAMs (Secure Access Module)	2 SAM, Asynchronous, VCC = 5V, 3V, 1.8V
SIM	2 SIM
Connections on terminal	USB 2.0 OTG
Base	Charge + additional battery charge + connections
Connections on base	Ethernet; RS232; USB2.0 OTG
Audio	Speaker, TTS enabled
Phone	Microphone and earpiece, 3.5 mm headset connector
Batteries	Li-ion, 3800 mAh
Size	190 x 86 x 42 mm
Weight	590g (including paper roll, battery and payment module)
Environment	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)
Certifications	Electrical safety IEC 950 - UL1950
	EMC: EN55022; EN55024; EN61000; ICES (Canada)
	FCC part 15, Class A digital device as well as CE approvals
In-pack accessories included	Power supply/Battery Paper Roll
SW tools	SDK, PDA Dev Helper, Payment Communication Layer (PCL)

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

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