



PayPDA

Secure Payment in the Mobile Computing World



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The PayPDA

The PayPDA is exclusively brought to you by Novo Ivc as a result of many months of testing and comparing all mobile hardware platforms applicable to the Travel Retail environment.

Our requirement was for a device which could not only perform under the extreme working conditions required for Travel Retail but could meet all the banking criteria surrounding processing secure chip and pin.

Last year, as a result of this research a distribution contract for Travel Retail was agreed with the manufacturer (and World No 1 in payment processing) Ingenico.

Ingenico were not only chosen as a strategic partner due to the brilliantly designed lightweight yet rugged terminal (The PayPDA) but because they were clearly at the very forefront of secure payment processing technology and already had strategic partnerships in place with all major banks.

These existing relationships have proven to be key when embarking on the obligatory new system accreditation process and have proven to be invaluable in terms of speeding up what can sometime be a very lengthy process).

This goes some way to explain why The PayPDA ranks second to none in terms of secure chip and pin and contactless payment processing and comes with all EMV, PCI, APACS and Aircraft Safe certification required to safely store card data onboard and process it on the ground.

Using E2EE (end to end encryption) all card data can be secured on the pin pad (which remains entirely separate from the PDA part of the units at all times) while sales are made onboard. Once the plane has landed, payment services can be taken from behind the clients firewall and channelled through a PCI/DSS data centre straight to the acquiring bank for instant reconciliation.

This means that we are now in a position take full responsibility for your entire onboard retail technology requirements inclusive of providing secure chip and pin and contactless payment integrated with a security enabled hand held and 3DES encrypted SkyPOS software, leaving you to concentrate on your core business.

The PayPDA is also fully certified for Contactless Payment and NFC (Near Field Communication). Recent independent MasterCard surveys show a Contactless or NFC payment can reduce the length of a sale by 21 seconds when compared to cash. This provides the opportunity for a second service (where before maybe one was only possible) and the benefit of the additional revenue as a result.

Combined with Novo's SkyPOS software The PayPDA delivers a dependable yet innovative onboard retail solution whilst representing a fully future proofed investment.

The PayPDA includes

- » Lightweight ergonomic easy to use (crew friendly) design
- » Long life battery (minimal requirement for battery change onboard)
- » Drop Tested onto concrete from 1.5 metres - all 6 sides including face. (competing platforms have only been tested to 1 metre or less without rubber casing)
- » Shock Tested to a high standard IK05 (vibrations are the key reason for screen damage contrary to popular belief)
- » Seamless Integration with SkyPOS
- » Seamless integration with SkyBOS
- » Connectivity – GPRS, Bluetooth, Wi-Fi
- » Payment – Credit Card, Chip & Pin, Contactless and NFC
- » Barcode Scanning
- » A powerful printer capable of printing barcodes, receipts and vouchers
- » Easy to change (drop in) paper roll
- » Anti-reflective scratch resistant full VGA colour touch screen
- » Fast processor to speed up sales process
- » Full bank certification for secure payments
- » Aircraft Safe

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 transfective
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
Contactless	ISO 14 443 (1,2,3) A/B Mifare NFC Felica Calypso
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	560g (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 Data/power cable/Paper Roll

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)
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 2.0, EMV level I





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