

# PASS Solutions



Issuer designs this card side. Adds, info, sponsors, etc...

PASS system offers a faster and easier way to make payments. It is a modern system for :

- Benefit cards,
- Tourist cards,
- Membership cards,
- e-vouchers,
- e-tickets and access control,
- Cashless payments

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**Benefit Cards**

**Cashless Consume**

**Membership Cards**

**e-Vaouchers**

**Tourist Cards**

**Access Control**





## PASS+ concept

### PASS+ Network

It is a network of *PASS+* Terminals installed with Merchants and connected to a *PASS+* Server via Internet.

### PASS+ Issuer

A company that issues cards and has a contract to use the *PASS+* Network. The Issuer creates its own Card Brand, has Members and B2B contracts with Merchants.

### PASS+ Merchants

Facilities that offer a special price and other benefits to *PASS+* Card holders.

### PASS+ Members (Card holders)

Persons that have *PASS+* Cards from the *PASS+* Issuer. They get special prices for services and goods at *PASS+* Merchants.

### PASS+ Cards

Electronic chip Cards with advanced technology for contactless communication with a *PASS+* Terminal. All the information on the card is stored with a highest level of encryption.

## Coorporate Consume Card

If a company or organisation has a large number of employees, it has a power to negotiate discounts with Merchants, polarising the market. From each transaction one part of discount goes to employee and rest to the Corporate. The Corporate will be an Issuer that has B2B



contracts with Merchants, and employees will be Card Holders. Card Holders consumption at Merchant would be recorded at *PASS+* Terminals. The Corporate will put consumption limits based on salaries and would deduct employee consumption from salary. Therefore, there is no

any financial risk for Issuer.

Employees will enjoy discounts, Merchant will make more profit with increased turnover and Corporate will get commission that can channel for improvement of work conditions or any other purpose.

Merchants that have free capacity available like Sport & Recreational facilities can offer up to 50% of discount.

We have a *PASS* installation with 20,000 employees and 200 Sport & Recreation facilities. The Issuer uses money made from commission to build its own Sport & Recreation facilities.

Issuer	Company Organisation
Card Holders	Employees
Merchants	Sport & Recreational Syndicate suppliers Supermarkets Pharmacies

## Loyalty Benefit Card

A merchant or union of merchants can issue a Loyalty Benefit Card and offer its loyal custom-



ers discounts or other benefit. The benefit could be by means of prizes, vouchers, etc... Different Merchant product line can have different discounts. At each Merchants there is a PASS+ Terminal.

As number of Card Holders increases, Merchants turnover increases and they can offer more attractive discounts and benefits. This Card can be combined with Membership Card, so Members of a Club get Benefits with Club connected Merchants.

<b>Issuer</b>	<b>Merchant or Union Club Voucher Agents</b>
<b>Card Holders</b>	<b>Public</b>
<b>Merchants</b>	<b>Various Shops Service Providers Supermarkets Pharmacies Clubs Etc...</b>

## Tourist Card

The PASS+ system can be used by incoming Tourist Agency for earning money from expenditure of guests outside of the board. If we take an example where an Agency would sell 10,000 incoming boards for summer holidays. By official statistics a Russian guest spends during holiday an average of €700 per week. By nature of things, the guest looks up to the Agency for suggestion of nice places to visit. Therefore, the Agency could easily channel the Russian guest to spend at least € 300 via PASS+ cards at Merchants where the Agency gets 10% commission.

In summary, the Agency would benefit € 30 per guest board. For 10,000 boards it is an estimated €300,000 benefit.

The Agency will have a contract to use PASS+ system and create its own Card Brand. The Agency will have B2B contracts with Hotels and Merchants agreeing a discount for Card Holder and Agency commission.

As the Agency handling bigger number of guests,

it would be able to negotiate bigger discounts and commissions with Merchants.

Upon arrival, each guest would receive a Card, which he/she can Top-Up and use for recording consummation at the PASS+ Merchants, where there is a PASS+ Terminal.

As per agreed settlement terms the Agency will make a payment to Merchants for Card Holders consummation, deducting its commission.

<b>Issuer</b>	<b>Tourist Agency</b>
<b>Card Holders</b>	<b>Tourists &amp; Guests</b>
<b>Merchants</b>	<b>Restaurants Hotel facilities Tour operators</b>

## Hotel Cashless Card



The PASS+ system can be used by a hotel for cashless guest consummation. Usually the hotel has a few consummation points: restaurant, bars, shops and spa. Upon arrival at reception, each guest would receive the Card. Hotel will set a consummation limit, which guest could use. Hotel can take deposit from the guest, as well. Naturally, the guest asks hotel reception or info desk where to dine and do shopping. Hotel can have B2B contracts with Merchants agreeing a discount for Card Holder and Hotel commission. When the limit is reached, the guest can Top-Up the Card. As per agreed settlement terms

the Hotel will make a payment to Merchants for Card Holders consummation, deducting its commission. The Issuer is the Hotel and the only cash point in the Hotel is at reception.

<b>Issuer</b>	<b>Hotel</b>
<b>Card Holders</b>	<b>Guests</b>
<b>Merchants</b>	<b>Hotel facilities Near by restaurants</b>





	M100 Terminal	M3000 Terminal
		
<b>General characteristics</b>	Microprocessor: ARM9 32-bit Operating system: JOS Memory: 16MB SDRAM, 8 MB Flash, LCD Display: backlit 128x64 pixels Keypad: 18 keys 2xSIM slot	Microprocessor: ARM9 32bit Operating system: JOS Memory: 16MB SDRAM, 8 MB or 256 MB Flash LCD Display: backlit 128x64 pixels (large) Keypad: 19 backlit keys with 4 function keys 3xSAM slots, 1xSIM slot DES/3DES/RSH/Hash encryption algorithm, Master Session and DUKPT key management
<b>Printer</b>	High-speed thermal; paper with 58mm, roll Ø 30mm	High-speed thermal, paper width 58mm, roll Ø 40mm
<b>Supported cards</b>	Contactless smart card ISO14443 type A/B, 13.56MHz	Contactless smart card: ISO14443 type A/B, 13.56MHz Contact smart card: ISO7816 (EMV2000) Magnetic card reader: Track1/2/3, bidirectional swipe
<b>Communication</b>	GPRS: 850/900/1800/1900 MHz quad band	GPRS 850/900/1800/1900MHz, asynchronous Modem, Ethernet, Wifi, Bluetooth
<b>Interface</b>	1 x RS-232 1 x USB	1 x RS-232 1 x USB
<b>Power supply</b>	Voltage AC input 100-240 VAC, 50/60 Hz; DC Output 9V Battery: Li-ion Polymer, 7.4V, 1500mAh	External 9V/4A switching power supply Internal 7.4V 2000mAh Li-ion battery
<b>Dimensions</b>	185x90x53mm	180x87x56mm

## PASS System Ltd history

Aquacom company is founded in South Africa in year 2000, when we have started with Technical Aqua Systems integration business. From 2006 our head office is in Australia. We have started with Ticketing & Accessing systems business line in year 2009. At that time our facility management business line was in need for a modern Ticketing & Accessing system, so we have decided to develop an in house system called PASS. The first installation of this system was at Cable Park Kish Island in 2010. As market interest for the PASS System has increased, in 2011 Aquacom and its partners have founded a sister company PASS Systems Pty Ltd to further develop the PASS systems.



### PASS + Merchants:

- Supermarkets
- Fashion Shops
- Pharmacies
- Swimming pools
- Tools shops
- Entertainments
- Tennis courts
- Fitness centers
- Stadiums
- Arenas
- Restaurants
- Fast Food chains
- Hotel chains
- Parking
- Aqua Parks
- Cable Parks
- Musical Events
- Fairs-exhibitions
- Tourist resorts
- Theme parks
- Museums and Zoos
- Etc...



## POCKET PLUS

**Quick & Easy consumption without communication with server**



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