SMARTCARD SYSTEM
iBonus STATIC TERMINAL

A field proven, secure solution for smart card payment and bonus point application

iBonus Terminal is the most powerful and sophisticated off-the-shelf solution available today. Comprehensive member card transaction and smart card handling functions such as issuing card, blacklist and replacing card are all included in this little device. It enables the card handling process to be done at any branch. Being off-the-shelf and field proven solution, iBonus terminal can let you issue smartcards with your own brand in no time. It is the heart of the loyalty operation. It compactly contains an embedded web server, journal database with built-in software applications that operates independently without the need of an extra PC. Operation is carried out using a keypad for input and a built-in smart card reader to transfer information to and from the Member Card. Transaction records stored in the Terminal can be collected by iBonus Server software through TCP/IP network.

As there is no real time query between iBonus Server and Terminals, the data requirement of processing power of iBonus Server is low. iBonus Server can be installed in any Windows XP desktop computer. Different Terminals in different branches are identified by the difference in their branch code. Different Terminals within the same branch have the same branch code but different terminal code. Both branch code and terminal code range from 1 to 9999. The connection between Server and Terminal is always from Terminal to Server. Even the data is sent though the Internet and the terminal is set to have local IP, No NAT or port forwarding is needed for the Terminals. In one word, the connection can be established as long as the Terminal can ping the Server.

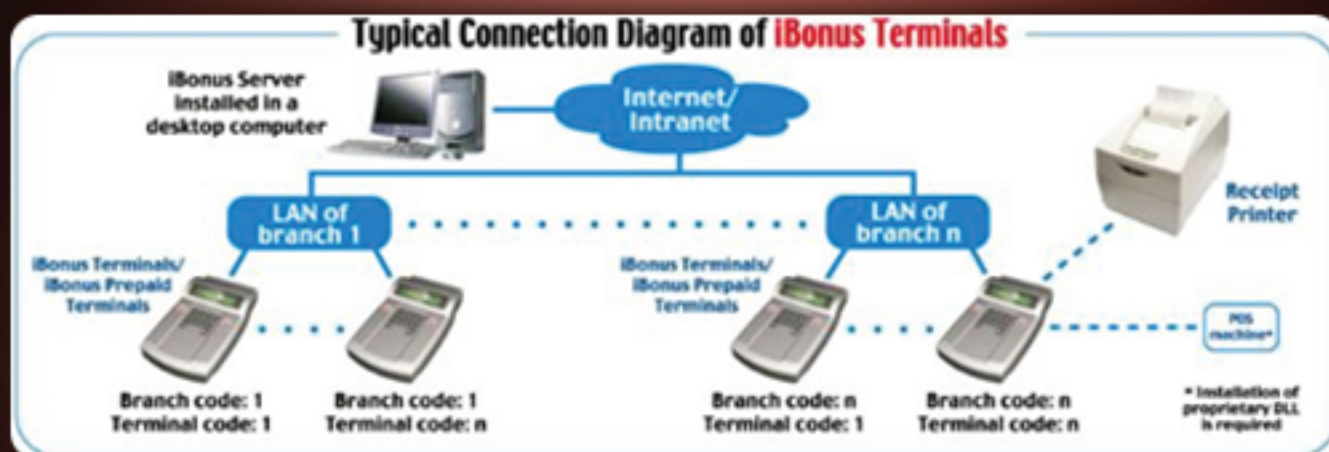| 500 Storage Buffer | 64 Bits Encryption | Card less | Keypad | Contactless | Light Indicators | Ethernet Support |

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Typical Connection Diagram of iBonus Terminals

Doing Card Transactions

iBonus Terminal provides generic transaction types for performing calculations of stored values, such as, Purchase, Reload, Bonus Point Addition and Redemption. The behavior of all transactions types are consistent with the combinations of card status, system setting and system status, like, decryption keys, expiry settings, decimal mode, bonus rate, blacklist, card sector usage, card value limits. Without the need of redeveloping the sophisticated algorithm behind, anyone who is new to smart card systems can make use of them and quickly deploy a loyalty system. Sending Transactions back to iBonus Server After finishing a transaction, such as adding bonus points, redemptions, staff login, the transaction record is stored in the Terminal's transaction queue. There is 5,000 buffer in the transaction queue. The records in the transaction queue are sent to server as soon as the network connection is ready. The terminal stops accepting transaction when the queue is full.

Advanced Card handling

iBonus Terminal provides advanced card handling function which allows card expiry date extension (Card Renew), Lost card replacement and Corrupted card repair at Terminals of any branches. It saves up the establishment of central call center for card control purpose.

Receipt Reprint and Auto Reprint

When printer is connected, a receipt is printed whenever any transaction is made. Press the button A if you wish to reprint the receipt of the last transaction. If auto reprint is on, two receipts will be printed for every transaction.

Connects to POS System (Cash Machines)

iBonus System unifies the smart card system with the POS system. All the transaction types in iBonus Terminal are accessible by POS through RS-232 serial port. Coming with a readymade Windows based API, all the generic transaction set and advanced card handling functions can be accessed with ease. In addition, with the help of read member card and read staff card functions, POS can command the most suitable transaction based on the POS side member profile

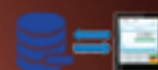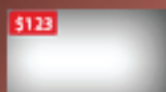| 5000 Storage Buffer | 64 Bits Encryption | Card less | Keypad | Contactless | Light Indicators | Ethernet Support |

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iBonus
SMARTCARD SYSTEM

12 REASONS WHY TO CHOOSE IBONUS SYSTEM

Anti Fraud Features

The technology used in iBonus is stored value card, hence there is no possibility of manipulation that can be done at the backend database.

1

Stored value card (SVC)

iBonus smart card has a technology to save value and points on the card itself. This means the card stores the last transaction value.

2

End to End Customization

iBonus system has a capability of end to end customization as per client's requirements. This means it is customizable to any extent.

3

Instant earning and redemption

Since it is a stored value technology, end users can earn and redeem points instantly without any dependency on backend.

4

Real Time Transactions

When connected to Internet or WI-FI, real time transactions can be viewed on the backend server.

5

Designed for mass deployment

Ibonus has a ready setup for enterprise segment and can be deployed in any big outlet in no time.

6

OFF line Storage

case of Internet connectivity loss, data is safe since the terminal itself is capable of storing 5000 records in offline mode and as soon as the Internet is resumed the data gets pushed immediately.

7

Supervisor Authority control

The system can be configured as per the needs of the client. This means staff management as per hierarchy is possible and Authority levels can be defined which can be controlled by Staff cards.

8

Point of sale (POS) Integration.

iBonus has a ready API's which can be integrated with any windows base POS application.

9

Central database Architecture

Be it one terminal or 100 or more the data get pushed to the central database real time.

10

Health and Integrity checks

The backend iBonus server keeps sending regular pings to ensure that the terminals are working seamlessly and in case of a fault it sends a trigger back to database

11

Loyalty/ prepaid Engine

Works on push and pull technology. When connected to Internet, the terminal pushes the data in real time to the central database, while the backend does the job of pulling the data from all the terminals.

12

500 Storage Buffer	64 Bits Encryption	Card less	Keypad	Contactless	Light Indicators	Ethernet Support

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IBONUS SMART CARD BASED LOYALTY/PREPAID SYSTEM

The System has two different versions and customer can select as per their requirements

Sr. No.	iBonus Software Application Features	iBonus Static	iBonus Online
1	Android platform supported	✖	✖
2	Smart Card verification / Transactions via NFC	✔	✔
3	Card Blacklisting Security Feature	✔	✔
4	Web Based Application with Management	✔	✔
5	Central reporting of Multiple terminals /Locations	✔	✔
6	Basic Report Generation using Windows App.	✔	✔
7	Standard Email Alert Services	✔	✔
8	Invoice Number input option	✖	✖
9	Firmware level Customization	✔	✔
10	Anti fraud feature	✔	✔
11	Loyalty Rate setting Configuration	✖	✖
12	Transaction Auto Data PUSH & PULL	✖	✖
13	Integration with Existing Windows POS Application	✔	✔
14	Card less Online point system	✔	✔
15	Live Dash board on SaaS model (Monthly rental)	✔	✖
16	Backend communication via Wi-Fi/ 3G	✖	✖
17	Instant Redemption using Smartcards	✔	✔
18	Transaction Receipt printing	✔	✔
19	Smart Card formatting	✔	✔
20	RS232 Serial Port POS level integration	✖	✖
21	SOAP POS Integration using Network IPs	✔	✔
22	RJ45 Network Port for Wired Network	✖	✖
23	Static Public/Private IP Assignment	✔	✖
24	DHCP IP Assignment	✔	✔
25	Touch Screen Administration	✖	✖
26	Keypad based Administration	✔	✔
27	Mifare Classic ISO 14443A Supported Smartcards	✔	✔
28	Manual Transaction Data Push from Terminals	✔	✖
29	Referral prepaid / Loyalty feature	✖	✔
30	5000 records transaction buffer in terminals	✔	✔
31	Web based Administration on terminals	✔	✔
32	Parallel Port printer Support	✔	✔
33	Bluetooth printer Support	✖	✖
34	Web based Administration on terminals	✔	✔
35	Dynamic DNS server name option	✖	✖
36	Canteen Meal head count Swipe feature	✔	✔
37	ECAMPUS Solution features	✔	✔