RockPOS

RP-3L

System Description

RP-3L is the secure and economic way to take bank services out of the bank offices.

The system is made of a robust server with ports to receive calls from easy to use and secure terminals, making all together an excellent remote Banking System.

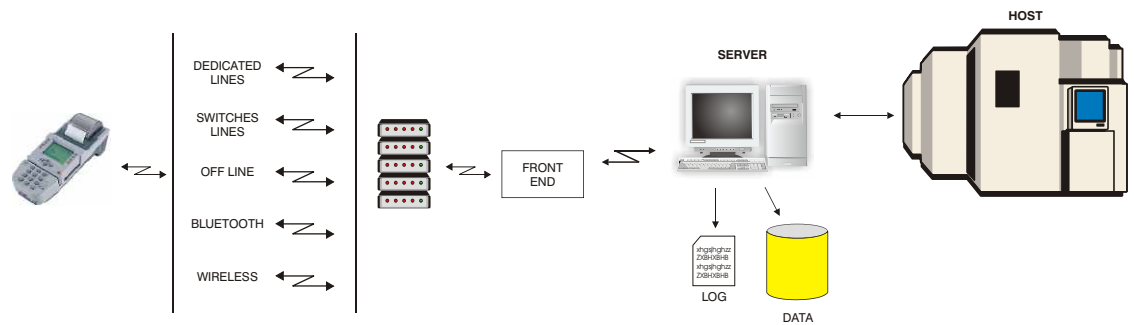RockPOS System has been designed to bring the best banking service at the customer's premises.

State of the art encryption and security features have been included in the system.

All the technological sophistication of RP-3L does not change operation and installation simplicity.

Lower congestion at branches and less Host processing are some of the advantages of RP-3L.

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RP-3L System

The Terminal

RP-3L terminal has a Smart Card reader to bring compatibility with this fast expanding technology. Magnetic Card reader is also provided to bring service to widely used magnetic stripe card.

Security has been a high priority concern in the design of RP-3L terminal. State of the art hardware encryption and algorithms to make messages variable assure privacy and highest security of transactions.
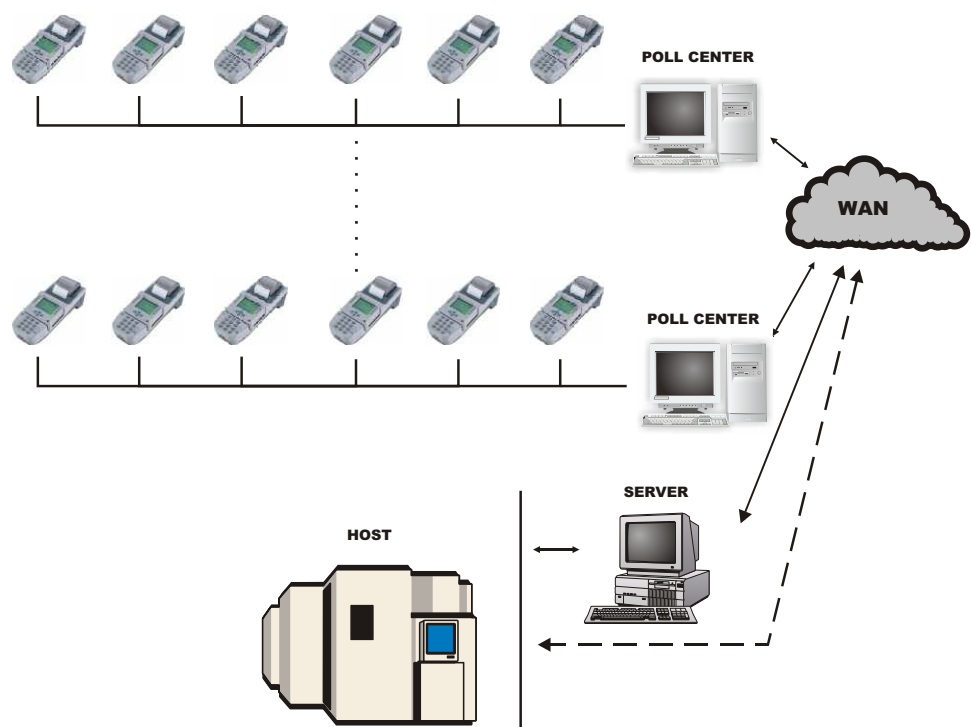
A new and powerful 16 bit microprocessor of the latest generation and a high efficiency modem are the soul of RP-3L terminal.

The Server

Programming of server has been made with the latest development tools bringing to the software an excellent reliability and efficiency.

Server operates under Windows NT, which gives a bunch of additional features like data base mirroring, multiprocessor operation, etc.

All low level protocol and communication processing is made by a microprocessor included in the multiport boards.

Security, Reliability, Expandability are the key words of RockPOS system.

Operation

The system is very flexible, allowing programming of practically any transaction. C language programming and complete set of libraries gives simplicity to development of new programs. The system is capable of making all transactions made by an automatic teller machine. Withdraws are associated with Smart Card recharging.

Additionally, bank can supply on-line information on stock exchange, money market, indexes, new products, etc. Off-line information like Smart Card balance, debits and credits can be supplied as well.

Reports available includes date, time, transaction number, etc. and a promotional message that the bank may include with all transactions.

A complete manager of new versions of the terminal programs is available at the server, making possible to have all terminals automatically updated with as many different programs as needed.

Several type applications can run in the terminal, such as point of sale, small business office, etc.

Charges can be different per each customer and each transaction. Server program can be easily operated to get detailed information and statistics.

High efficiency of phone lines use, is achieved by a very well designed protocol and communications scheme. 20 to 25 sec. per transaction is the typical phone line use time for a transaction.

Also wireless communications are available reducing the length of the transaction.

A sophisticated algorithm to generate a UTN (Unique Transaction Number) assures that even with operation or communication errors there will be no duplicated transactions.

Excelec Products are manufactured with environment friendly Technologies, like lead - free solder and recyclable materials.

RP-3L

Microprocessor: 16 bits Phillips 80C51XA.

Memory: 4MB battery-backed RAM + 1MB Flash.

Display: Graphic 128 x 64 pixels. High contrast, high visibility STN Liquid Crystal Display.

Keyboard: 24 key Silicon rubber with Tampo printing keyboard. Gold contacts.

Magnetic Card Reader: Manual swipe. Tracks1-2 according to ISO.

Smart Card Reader: According to ISO7816. Reads Synchronous and Asynchronous cards. Integrating Gemcore ®.

Modem: V32bis 14.400 bps AT commands (expanded).

Serial Ports: 2 Serial Ports: One RS232, one RS485.

Programming: ANSI C language. Development Kit available including a complete set of libraries.

Power: 6VDC, 3 Amps.

Dimensions: H= 117, W= 109, D= 275.

Printer Specs:

	Thermal	Impact
Paper Width (mm)	57,5	57,5
Paper	Thermal	Plain
Paper Roll Diameter	80	80
Dots/Line	384	144
Characters/Line	32	24
Speed (lines/seg)	10,7	1,9
Character matrix	12x24	5x7
Ribbon	---	Epson ERC09
Themperature	0-40	0-45
MTBF (lines)	15'000.000	500,000

Optional

Memory: 16MB EEPROM memory.

Contact-less Smart Card: reader/writer acording to ISO 14443A and B. Mifare compatible

Barcode Reader: Barcode reader.

Hardware Encryption: DES, 3DES and Full 3DES by hardware directly in the keyboard.

Ethernet: Ethernet Port.

Magnetic Card Reader: Tracks 1,2 and 3.

Smart Card Reader: Dual reader. EMV Certified.

Power: Rechargeable Battery. Car adapter.

Wireless: optional CDPD, CDMA1x, GPRS, iDEN, Bluetooth and Wi-Fi 802.11b.

Server

Operational System: Microsoft Windows NT Advanced Server 4.0 or higher.

Data Base: Microsoft SQL Server Ver 7.0 or higher.

Programming: Programming has been made in C++.

Transaction Access: TCP/IP LAN or Multiport board

Hardware Requirements (minimum to operate):

- PC with 300 MHZ Pentium II or better.
- 128 MB RAM.
- 4 GB hard disk SCSI.
- CD ROM drive
- Tape drive approved for Windows NT.
- Access server with one modem per port 14,400 bps minimum or a RAS server.
- 56 Kbps Windows NT compatible modem for remote support.

Distributed by

Excelec Cía Ltda
Cra. 48 # 48 Sur-75 Of 156
Medellín, Colombia
South America
  Tel: 57-4-301 2222
  Fax:57-4-288 7611
  www.excelec.com

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