Conventional Card Recharging

Smart Card recharge is becoming a significant event in many of the public transport systems like local train, urban metro etc. Recharging becomes expensive when number of commuters is very high as it adds tremendous pressure on the manned counters. Still there are long queues in rush hours but poor utilization of counter facility in slack hours. Public Transport operators like Indian Railways look for alternate options to cut down the costs.

Recharging through Kiosk

Recent trend is to deploy Self-service Kiosks for smart card recharge in public transportation. Kiosks can be placed in various positions of stations to decrease the load on the counters substantially. Addition of card dispense facility gives a special dimension to the kiosk

Mega Designs Offering

Mega Designs offers *ASCRM*, a one stop card vending and recharging kiosk, that:
- Provides an easy interface for smart card recharging as well as buying
- Brings a flexible modular design for interfacing with various types of peripheral devices
- Offers an open interface for making connectivity with any backend application stack

Mega ASCRM Features

- √ Modular design
- √ Energy efficient
- √ Touch Screen based interface
- √ Smart Card recharge/dispense
- √ Network connectivity
- √ Receipt printing
- √ Detailed transaction reporting
- √ Stainless-steel based body

Mega ASCRM Advantages

Mega ASCRM offers less TCO (Total cost of ownership) in comparison to similar solutions. Moreover the solution is open for customization to suit any need

Mega ASCRM Components

- Thin Client based Processing Unit
- Touch Screen
- Currency Acceptor/Validator
- Smart card Acceptor/Dispenser Contactless/Contact Smart Card Reader/Writer
- Rugged Receipt Printer
- Cash vault with electronic lock
- Built-in UPS

Other Products from Mega Designs

Mega Designs offers a wide range of currency handling / self-service products such as:

- *Cash/Coin/Card operated ticket vending machine*
- *Card operated ticket vending machine*
- *Utility bill payment machine*
- *Coin vending machine*

Mega ASCRM Technical Specification

Hardware:	Intel processor based thin client
CPU:	Dual core CPU @1.6GHz
Memory:	2 GB/4GB RAM
Disk:	4GB Flash as primary and another 4GB as secondary/redundant
Display:	17 inch LCD monitor 16:9 Aspect Ratio
Input Methods:	Projected Capacitive touch screen
Currency Acceptor:	Acceptor/validator for all Gandhi Series notes along with inbuilt 15 note escrow
Card Dispenser:	Motorized card accept / dispense with integrated card stacker and error bin
Card Reader:	Contactless (ISO/IEC 14443 1-4 T=CL) RFID card read /write Contact (ISO/IEC 7816 T=1) card read / write
Receipt Printer:	Rugged thermal printer with auto-cutter
LAN:	Ethernet 10/100 Mbps
UPS:	UPS with 30 minutes backup
Cabinet:	Stainless steel cabinet with provision for floor clamping
Operating System:	Customized small footprint Linux with kernel 2.6.32 or above
Connectivity:	TCP/IP based networking with standard components like DHCP, DNS, Telnet, FTP etc.
Java Support:	Java run time (JRE) version 1.6 or above

ASCRM being used by Kolkata Metro at stations for purchasing new Smart Card and recharging existing Smart Card

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