

# MEGA-TVM

## Conventional Card Recharging

Smart Card issue and 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.

## Issue & Recharge 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. Addition of card dispense facility gives a special dimension to the kiosk.

## Issue of Tokens

Issuing Tokens from counters is an even bigger task because of the high number of passengers who opt to buy tokens for each journey. Automating issue of tokens can lead to substantial cost savings in terms of reduced man power requirements.

## MEGA- TVM Features

- ✓ Modular energy efficient design
- ✓ Touch Screen based interface
- ✓ Smart Card recharge/dispense
- ✓ Token Dispense
- ✓ Network connectivity
- ✓ Receipt printing
- ✓ Detailed transaction reporting
- ✓ Stainless-steel based body reduced man power requirements.

## MEGA-TVM Advantages

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

## MEGA-TVM Components

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



**Mega Designs Pvt. Ltd.**

Module 301, SDF Building, Block-GP,  
Sector - V, Salt Lake Electronics Complex,  
Kolkata - 700091, India.

Call : +91 33 33 23571906

E-mail : sales@megadesigns.co.in

## MEGA-TVM Technical Specifications

|                   |   |
|-------------------|---|
| CPU               | Intel processor Dual core CPU @1.6 GHz or more  |
| RAM               | 2 GB/4GB RAM  |
| Disk              | 4/8 GB Flash as primary and another 4/8 GB as secondary/redundant   |
| Display           | 17 inch LCD monitor<br>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                            |
| Coin Acceptor     | Acceptor to accept Indian Currency Coin   |
| 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<br>Contact (ISO/IEC 7816 T=1) card read / write |
| Token Dispenser   | Token Dispenser for tokens of dia. 30 mm, thickness 3 mm  |
| 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 4.19   |
| Connectivity      | TCP/IP based networking with DHCP, DNS, Telnet, FTP etc.  |
| Java Support      | Java run time (JRE) V1.8  |



*TVM being used by Kolkata Metro at stations for purchasing and recharging Smart Card and issuing of Smart Tokens*

### Our Other Products Range

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
- ✦ Token Dispensing Machine

