

# Multi-Function Point-of-Sale 3100



## MPOS at-a-glance:

- Integrated ticket office and customer service machine
  - Issue a variety of tickets — contactless smart cards, magnetic tickets, and paper proof-of-payment tickets
  - Add value/products, verify balances, autoloads, hotlist cards, run queries and reports
  - Flexibility of fare structure from simple to complex — time, zone, value and/or multi-trip
  - Wide range of data upload/download options
  - Communications via dedicated network or dial-up modem
  - Superior security with SAM support and security architecture
  - Multi-application support
- Cubic's Tri-Reader® for secure processing of ISO 14443 Type A and Type B full featured and limited use contactless smart cards
  - Freedom of card choice
  - Ease of use, customer convenience
  - Reduced fraud
- User-friendly interfaces
  - Simple graphical user interface for operator
  - Standard PC, keyboard and mouse
  - 15 inch (minimum) flat panel touch
  - PC stand for ergonomic use
  - Easy to view customer display
- Flexible configuration options
  - Choice of printer — receipt, check endorsing, proof of payment or laser printer
  - Integrated credit/debit processing
  - Integrated high coercivity magnetic card reader
  - Lockable cash drawer controlled by terminal
  - Second lockable cash drawer with independent keying
  - Camera

**The Multi-Function Point-of-Sale,** designed for ticket office and customer service operations, combines Cubic's Tri-Reader® multi-protocol card interface device with a commercial-off-the-shelf personal computer (PC), printer and optional magnetic card reader to issue a variety of tickets including contactless smart cards, magnetic tickets and paper proof-of-payment tickets.

## How it works

The Multi-Function Point-of-Sale terminal interfaces with the central system to perform other administrative functions including adding value and products to cards, verifying card balances, hotlisting lost and stolen cards, querying transaction histories, autoloading, resolving disputes, reversing transactions, issuing credits and running reports.

The PC provides the graphical user interface for the operator and controls both the local communications between itself and the Tri-Reader and the routing of communications between the Tri-Reader and the central system. It also communicates with the central system via a dedicated network to upload transactions and download configuration data including software updates, fare tables, hotlists and Autoload lists. Through these secure communications, the Multi-Function Point-of-Sale terminal also loads the security keys from the central system onto the contactless smart cards, preventing unauthorized monitoring of communications with the smart card during the key loading sequence.

Offering maximum flexibility, the Multi-Function Point-of-Sale machine can be configured with choice of printer (receipt printer, check endorsing printer, proof of payment printer or laser printer) and other options including a credit/debit processor, PIN pad, lockable cash drawers, customer display, and camera.

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## Specifications:

### Physical

Dimensions: 352mm (13.9in), Width 400mm (15.8in),  
Depth 117mm (4.6in)  
Weight: 13kg (31lbs)  
Material: rugged Acrylonitrile Butadiene Styrene (ABS)  
Voltage: 100 to 240 VAC, 50/60 Hz  
Power Dissipation: 120W Max (PC), 121W (with printer)

### Capacity

Processor: Pentium P3 700 MHz CPU (minimum)  
Operating System: Windows® 2000, Version SP 4  
Memory: 256 MB (maximum), 10 GB hard drive (minimum)

### External Interfaces

RS-232 with RJ-45 connector  
RS-232/422/485  
USB (2)  
Ethernet

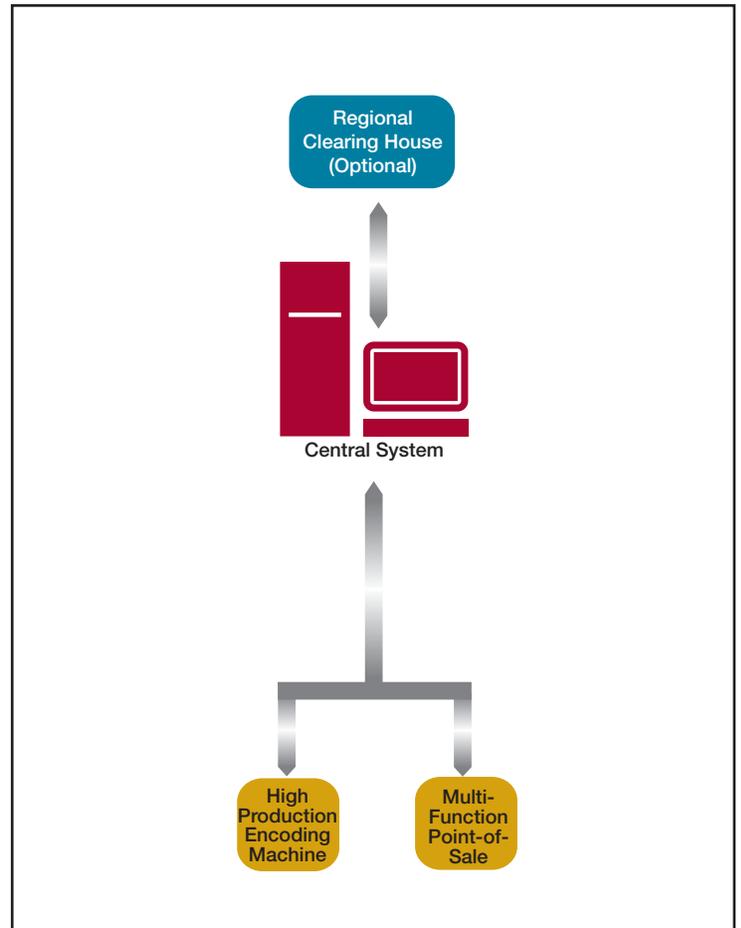
### Environmental

Storage Temperature: Not Rated  
Operating Temperature: 0°C to +40°C (+32°F to +104°F)  
Relative Humidity: 10% to 90%  
Vibration: Not Rated  
Shock: 5g  
Ingress Protection: spill resistant  
Immunity: CE  
Emissions: FCC 15B, Class B  
Flammability: N/A

### User Interfaces

Operator Interface: 15in (minimum) touch screen, standard PC, keyboard and mouse  
Patron Interface: customer display (pole mount option), optional PIN pad  
Media Issuance: paper, magnetic tickets (option), ISO 14443 Type A and Type B full featured and limited use contactless smart cards  
Media Acceptance: magnetic tickets (option), ISO 14443 Type A and Type B full featured and limited use contactless smart cards

Tri-Reader® is a registered trademark of Cubic Transportation Systems, Inc.  
Windows® is a registered trademark of Microsoft Corporation.



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*In the interests of product improvement Cubic reserves the right to change the above specification without notice.*