

# High Production Encoding Machine CSC



#### CPM at-a-glance:

- Integrated high volume card production machine
  - High reliability for mass public distribution of CSC cards
  - Full production capability encoding, printing, initializing, testing, stacking and packaging
  - Flexibility to produce contactless smart cards and magnetic tickets with interchangeable modules
  - Communications to central system via a dedicated network
  - Superior security with SAM support and security architecture
- Complete Quality Assurance
  - Full functional checking of ASIC memory and CPU
  - Physical flexing of card
  - RF field range antenna tests simulating actual in service performance
- Tri-Reader®
  - Secure processing of ISO 14443
     Type A and Type B full featured and limited use contactless smart cards
  - Freedom of card choice
  - Flexibility to use more than one card type simultaneously in an AFC system
  - Economy to implement the most cost effective card type for different user types and/or applications
- Mass distribution of pre-encoded media
  - 3000 cards per hour
  - Distribution to ticket vending machines, ticket offices, and retail outlets
  - Automatically fill TVM magazines or mini-packs
  - Flexibility to pre-encode cards with value and products
  - Custom capability to pre-encode cards with special permissions for students, seniors, disabled, and events

## The High Production Encoding Machine - Contactless Smart

**Card** is designed for high volume card production. It performs all of the functions needed to produce reliable cards for mass public distribution including formatting, encoding, printing, initializing, complete ASIC and antenna, testing, stacking, flex testing and packaging.

#### How it works

The operator activates the High Speed Production Encoding Machine via personal access code and then enters run data through menu prompts which generally include; the batch number, serial number range, value, total number of cards required for a run and the number of cards in each mini-pack or magazine. As the machine performs the testing, encoding and sorting process, the display shows the number of cards in the relevant parts of the mechanism, e.g. the number of cards encoded, the number that are stacked and the number of cards rejected.

To meet programmed standards, a complete range of Quality Assurance testing is performed including full functional checking of the ASIC memory and central processing unit, physical flexing of the card, and RF field range simulation of actual "in service" conditions.

Integrating Cubic's Tri-Reader® multi-protocol card interface device, the High Speed Production Encoding Machine can process ISO 14443 Type A and Type B full featured and limited use contactless smart cards..

As an option the contactless smart card module can be interchanged with a magnetic ticket transport module and magnetic tickets can be processed by the same machine for a multi technology capability. The HPEM can process 3000 contactless smart cards per hour or 7,000 magnetic tickets per hour, facilitating mass distribution of pre-encoded media through ticket vending machines, ticket offices, and retail outlets. Cards can be pre-encoded with value, products, or special permissions for sudents, seniors or patrons with disabilities.

### **High Production Machine CSC**

#### **Specifications:**

#### **Physical**

Dimensions: Height 1.7m (67in), Width 2.09m (82in),

Depth .63m (25in) Weight: 455kg (1000lbs)

Material: 2mm (0.79in) thick stainless steel Voltage: 110 to 250 VAC, 50/60 Hz Power Dissipation: 600W Max

#### **CPU Capability**

Processor: Pentium® PII 400 MHz CPU (minimum)

Operating System: Windows® NT Memory: 64 MB RAM, 2 MB PCI card

#### External Interfaces

RS-232

Domino ink jet printer Audit printer

#### Environmental

Operating Temperature: +10°C to +40°C (+50°F to +104°F)

Relative Humidity: 15% to 90%

#### User Interfaces

Operator Interface: 15in color monitor, keyboard and mouse

Patron Interface: N/A

#### Media Processing

Contactless smart cards: ISO 14443 Type A and Type B full featured and imited use contactless smart cards

Magnetic tickets (with magnetics module): Ticket thicknesses from .18mm (.007") to .25 mm (.010"); Hi and low Coercivity; ISO 7810 and

7811 encoding; Various other custom encoding formats Printing: High speed ink jet printer; 2 lines of 30 alphanumeric

characters

Card Processing: 3000 per hour, input 1 magazine of 400, output 3 magazines of 400 or 3 mini-packs of 40,

reject bin capacity of 100

Central System

Master
Controller

High
Production
Encoding
Machine

Card Distribution

Card Distribution

Ticket
Point-ofSale

Outlets

Ticket
Office

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