

# Backload SM/MSM

The world standard for  
backload configuration



Proven Global Solution

Flexible Configuration for  
Multiple OEM Applications

Lowest Cost of Ownership



**CRANE**<sup>®</sup>

PAYMENT SOLUTIONS

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Backload MSM

bill validator

# The world standard for backload configuration

## Backload SM/MSM



### Features

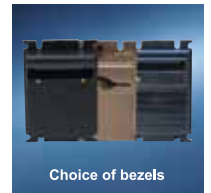
- Superior acceptance and security: first pass acceptance 96+%
- Advanced auto-calibrating optical, inductive and dielectric sensors optimize validation rates
- Anti-stringing protection
- Secure lockable-removable cassettes available in multiple capacities
- Four-way bill insertion
- Complete transport cycle at only 1.7 seconds
- High impact resistant cash vault
- Durable, metal chassis

### Convenience for You and Your Customers

- Installs in an up or down stacking configuration
- Beltless transport system lowers maintenance costs
- Tool-free, one-step, easy service access
- Remote-upgradable using CCNet protocol
- Quick and easy diagnostics via LED indicator



Smart-Stick updates



Choice of bezels

SM/MSM BackLoad Validator	
Bill Width Validated	67 or 71 mm wide (fixed-width) 62 - 78 mm wide (multi-width)
Complete Transport Cycle	1.7 sec (fixed-width) 2.5 sec (multi-width)
Bill Insertion	Four-way
Validation Rate	96% or higher
Escrow	One bill
Sensors	Auto-calibrating multi-color optical, dielectric, inductive, and
Security Sensors	Cross-channel (anti-stringing) and dual-entry barcode reader
Bezel Options	Standard, Running lights, coin/vandal-resistant metal bezel
Interfaces Supported	12V: pulse, serial or bi-directional (with TTL or RS232)
Protocols	24V: MDB, single price, CCNet, CashCode serial, MDB, pulse, and most other industry protocols
Firmware Updates	BlueChip™ Smart-Stick memory or downloadable
Operating Voltage	2V DC: 2.0 A; 24V AC or 15-42.5 V DC: 1.0 A / Sleep mode version 10µA vs 100 – 200 mA in normal operation
Operating Temperature	12V: 0° C to 50° C; 24V: -18° C to 60° C
Dimensions (W x H x D)	104 x 266 x 87mm
Weight	< 1.2 kg
Cassette Sizes Available	400, 600 or 1500 (fixed width); 150, 300 (horizontal); 300, 500, 1000 (multi-width)
Cassette Options	Standard: up to two custom locks High-security Gaming: up to three custom locks
Manufactured in	Canada