

DESKTOP  
EMBOSSING  
AND COLOR  
SYSTEM

**MATICA**  
TECHNOLOGIES



S3800HD





# S3800HD

## FINANCIAL DESKTOP EMBOSSE AND HIGH RESOLUTION COLOR INSTANT ISSUANCE SYSTEM

The new S3800HD instant issuance system has been designed around two core technologies. The new Matica embossing drum, based on our reliable heavy-duty embossing technology for central issuance, and the most reliable retransfer 600dpi printing engine in the market. Together, they create an compact, easy-to-use, system, which allows embossed debit and credit cards to be issued at branch level helping banks to generate a seamless, frictionless customer experience and to potentially, save significant costs.

The S3800HD is benefiting of the recently launched Matica Desktop Modules (MDM) architecture which offers a choice of unique hardware modules that can be combined to suit the user's needs. The MDM concept is designed to meet the demands of the very many applications that incoming technology is expected to work with, and to allow scalability.

Driving the printing, is the XID module, which uses reverse transfer technology to produce high quality, over-the-edge printed cards, so there are no white areas left unprinted. It's a feature that allows the S3800HD to instantly issue cards with such intense colors that they easily rival the best preprinted cards on the market. Its ultra-high 600 dpi resolution allows printing crisp, tiny characters, down to a character size of 1.3pt allowing real microtext. Electronic fine-line printing and other sophisticated graphic elements can be printed adding an extra level of visual security to the financial card.

The EMB module personalizes the card using the embossing and indenting drum, which can configure up to 72 + 72 characters for credit and debit card issuance. It embosses the front and rear indent, applying color to the embossed characters on the integrated tipping station.

Thanks to its high performance, the dual feeder option makes it best-in-class and allows different types of cards to be issued in a smooth, uninterrupted process.

The S3800HD is capable of producing magnetic stripe payment cards, EMV contact chip and contactless RFID cards and, in line with Matica's family of instant issuance products, it includes the Matica Security Pack for financial issuance.

### TECHNICAL SPECIFICATIONS

#### Personalization method

##### Retransfer printer (XID module)

- Dye-sublimation retransfer YMC and thermal transfer (K) printing 600 dpi
- Dual-side printing

##### Embossing and indenting (EMB module)

- Credit card configuration: 1 x 72 character drum, rear indent, tipping one colour
- Credit and debit card configuration: 2 x 72 character drums, front and rear indent, tipping one colour

#### Production speed

- Standard credit card with YMCK, magnetic ISO encoding, colour on front and black on the back side, plus embossing and tipping on front and rear indent on back: 36 cards per hour - single process
- Standard credit card with YMCK-PO, colour on front and black on back and embossing and tipping on front and rear indent on back: 32 cards per hour - single process

#### Encoding

- Magnetic stripe encoding: tracks 1, 2 & 3 ISO7811, HiCo/LoCo
- Options: EMV contact chip encoding and contactless chip encoding

#### Card specifications

- ISO CR80, ISO7810, ISO7816, ISO14443A&B
- Card thickness: 0.50 to 1.0 mm. (20 to 40 mil)
- Card material: PVC and composite PVC cards, PET-F/PET-G cards, ABS cards

#### Card hopper

- Automatic input feeder: 200 cards (0.76mm - 30 mil)
- Option: automatic dual feeder: 100 + 100 cards (0.76 mm - 30 mil)
- Concealed output hopper: 100 cards
- Internal reject hopper: 30 cards
- Exception feeder for single card

#### Connectivity

- USB 2.0 standard version
- Ethernet TCP-IP secure connection version

#### Software environment and SDK

- Supported OS: Windows 7 (32 & 64 bits), Win 8, Win 8.1, Win 10
- MatiDeskDLL with interfacing SDK compatibility
- Smart card SDK
- MDS software (Matica Desktop Suite) with interface SDK

#### Consumables

- Matica genuine consumables

#### Dimensions & Weight

- L x W x H:
  - Credit card configuration: 380 x 640 x 400 mm
  - Credit and debit card configuration: 380 x 670 x 400 mm
- Total weight:
  - Credit card configuration: 45 kg
  - Credit and debit card configuration: 50 kg