

# PERSOLINE SIM

## SIM Card Personalization End-to-End System Solution



- Top Processing Speed
- High Quality
- Highly Versatile
- Operator-friendly
- Cost-efficient



**SIM Card Personalization  
at 8,000 cards/h  
with DoD Technology**

# PERSOLINE SIM

## Cost-effective Personalization of SIM and Pay-TV Cards

PERSOLINE SIM is a modular personalization system for electrical and graphical personalization for all types of SIM and Pay-TV cards at unmatched productivity. PERSOLINE SIM supports a maximum machine speed of 8,000 cards per hour – this speed can be sustained even for extensive graphical personalization requirements like multiple bar codes with DoD printing technology as well as for long chip programming times.

The PERSOLINE SIM enables card producers to cost-effectively boost their productivity in the globally booming markets for SIM cards. However since the PERSOLINE is a fully modular personalization platform for virtually any smart card application – both contact and contactless – this high-end personalization solution can be expanded as needed to meet new production requirements.

### PERSOLINE SIM

#### Matching the cost and quality criteria for high volume SIM card personalization

##### Your Competitive Edge

- **High** processing speed of up to 8,000 cards/h
- **Low** personalization cost per card
- **High-resolution** 720 x 720 dpi graphical DoD personalization
- **Scalable** chip programming solution of up to 120 programming heads for programming times up to 54 seconds at full speed
- **Fully** smart card personalization platform for contact and contactless cards



#### 1. Input Module

- Automatic reloading reducing labor cost
- Feeder concept with standardized card magazines
- Feeding process prevents scratching of card surfaces, processing of high glossy cards possible
- Simple card handling



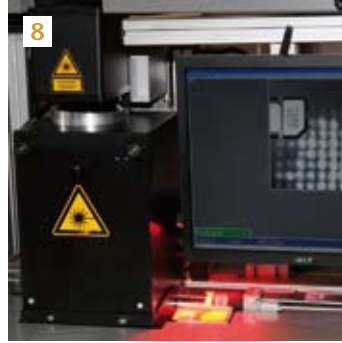
#### 3. Binary DoD Module

- Innovative Atlantic Zeiser OMEGA™ inkjet printer
- Deep black graphical personalization
- High-resolution with 720 x 720 dpi for ultra-compact bar code printing
- Printing width of 36 or 72 mm (1.42 or 2.84")
- Atlantic Zeiser inks for high contrast and graphical resolution
- Perfect adhesion to wide variety of card materials and surfaces

#### 2. Chip Programming Module

- High-speed chip programming coping with the most complex personalization requirements
- Scalable number of up to 120 chip programming heads
- Embedded flipping device; cards can be flipped at the input and/or output of the module
- Industrial standard readers allow easy integration in existing customer infrastructure
- Programming of contact and contactless cards





#### 3. SMARTCURE™ UV LED Curing

- Ultra-fast UV curing
- Increased lifetime
- Eco-friendly
- Energy-saving

#### 4. VERICAM™ Camera Inspection

- 100% OCR verification
- Verifies both variable as well as fixed data
- Online comparison with production file
- Automatic learning functions
- Most advanced graphical user interface

#### 5. Flipping Module

- For graphical personalization of both card faces
- Simple change-over between flipping and straight-through

#### 6. Label Application Module

- Inline application and graphical personalization of labels for MVNO SIM card packages

#### 7. Laser Marking Module

- Binary high speed laser marking
- Configurable with grayscale or fiber lasers
- Optionally equipped with embedded flipping feature for processing both card faces with one single laser

#### 8. Stack Sorting Module

- 4 standard card magazines (expandable up to 8 magazines)
- Same card magazines for feeding and sorting ensure easy handling
- Freely configurable sorting

#### 9. Machine Control and Production Software

- Supreme Atlantic Zeiser real-time platform BLS
- Wireless remote control increases operator flexibility

#### 10. Software Suite PMP-production

- Manages the entire card personalization process
- High security platform fulfills certification requirements of the banking and ID market
- Flexible and secure chip personalization using Global platform scripting
- Unique data handling for order input and machine management
- Production optimization by intelligent job distribution and production planning
- Lifecycle tracking for each card by PMP stock management functionality
- General material management
- Flexible reporting and audit functionalities

#### 11. Independent Modules

- Flexible, expandable configuration for quick and easy interchangeability and upgradeability



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## Modular Concept – PERSOLINE – The Platform

Atlantic Zeiser developed PERSOLINE as a powerful and flexible platform that can be easily configured with different system modules to handle a wide variety of applications.

PERSOLINE is a very flexible high volume personalization solution for simple to most complex, graphical and electrical personalization applications:

- SIM cards
- Pay-TV cards
- Flat financial cards
- ID cards (government & corporate)
- Driving licenses
- Health care cards
- Access cards

Technical Specifications	
Card Formats	ID-1/CR80 format according to ISO/IEC 7810 Thickness: 0.4 – 1.00 mm    15.75 – 39.4 mil Length:    86 mm                    3.38 inches Width:    54 mm                        2.13 inches
Production Speed	Up to 8,000 cards/hour (depending on configuration and/or application)
Dimensions	Length:    depending on configuration Width:    depending on configuration Height:    1,490 mm                    58.7 inches
Power Supply	400 VAC ± 5% / 50 Hz or 60 Hz / 3 phases + N + PE
Power Consumption	Depending on configuration
Ambient Temperature	10 – 30 °C
Relative Humidity	20 – 80% at 25 °C – non-condensing
Compressed Air Supply	7 bar positive air
Air Consumption	Depending on configuration
Exhaust	Depending on configuration