

# SMART TICKET PERSONALIZATION

Quality Control – Programming – Marking – Reporting



- CARD SYSTEMS ○
- DOCUMENT & PRODUCT IDENTITY ○
- IMPACT NUMBERING ○



# More than a Show Case...

# SMART TICKETS

## High Performance Smart Ticket Personalization

While more and more cities adopt Smart Tickets for their public transport networks, this market shows strong rates which is expected to continue for the next years. While reusable contactless plastic cards have been predominant for the last years, now due to the lower manufacturing cost, the more simple handling and lower maintenance cost an increasing number of mass transit networks adopt disposable paper based smart tickets, i.e. tickets disposed after using it a limited number of trips.

Smart Tickets are paper based tickets containing a contactless chip and are used as public transport or event tickets. Smart Tickets combine the advantages of paper tickets and contactless chip cards featuring lower unit cost than plastic cards while offering all the benefits of RFID technology:

- fast
- convenient
- secure data transfer without contact
- reduced maintenance costs
- no problems with slot-operated machines (paper jams, vandalism)

### PERSONALIZATION PROCESS exemplified for Single CR80 Smart Tickets on CHIPLINE

Smart Tickets are uploaded to a high-speed friction feeder without stopping the machine, while double ticket detection provides suitable production control.

The electronic personalization of the tickets is done on a continuously moving circular transport mechanism at up to 25,000 tickets/h over a contactless interface.

Several options of printing units are available to provide a proper printing process for the personalized data. In particular the OMEGA high-resolution drop-on-demand printing technology allows for complex graphical personalization designs offering crispy printing results.

A UV-curing module offers the use of UV-curable inks, even at high production speeds. These inks allow printing on non-absorbing substrates.

UNIQUE VISION® camera system monitoring quality and correctness of printed data, achieves 100% process control.

Finally the delivery module allows efficient batching of the personalized tickets. Tickets with incorrect data, chip programming errors or bad camera reading results are rejected into a lockable box.

# RFID Personalization Equipment from Atlantic Zeiser

- Key Features:**
- ▶ Innovative machine design developed for applications requiring 100% functional Smart Tickets/Labels for transportation, leisure and event tickets, e-pedigree applications
  - ▶ Quality control and pre-personalization of Smart Tickets/Labels for high volume production
  - ▶ Simultaneous RFID high-speed encoding, inkjet marking and optical OCR/bar code verification
  - ▶ Optimal price/performance ratio – from the economical entry-level module for the price conscious customer up to automated system solutions for performance oriented users
  - ▶ Low investment at start-up

## **CHIPLINE – High Performance Smart Ticket and Smart Card Personalization System (CR80 format)**

World's fastest Smart Ticket/Smart Card Personalization System, delivering unmatched performance up to 25,000 products/h.

### **Target Markets & Applications**

- Single CR80 Smart Tickets (especially high volume disposable paper tickets)
- Transportation, leisure and event tickets
- Native SIM cards
- Other contact-based or contactless Smart Cards with programming times up to 10 seconds

### **Special Features & Key Benefits**

- AZ chip programming solution ensures exceptional speed
- High-resolution drop-on-demand inkjet printing supports complex graphical personalization without compromising high production speed
- 21 programming heads – each equipped with both contact/contact-less interface
- On-the-fly laser personalization
- Platform compatible with CARDLINE
- Rapid return on investment
- High-performance ensures low personalization costs
- Maximum performance with 25,000 products/h



**CHIPLINE**

## **TAGLINE – Personalization System for RFID Smart Labels and Smart Tickets (web)**

The world's fastest RFID personalization solution. Patented machine design, specifically developed for applications requiring 100% functionality.

### **Target Markets & Applications**

- Reel-to-Reel process for Smart Tickets & Smart Labels
- Transportation, leisure and event tickets
- E-pedigree applications
- 100% functional Smart Tickets/Labels

### **Special Features & Key Benefits**

- Quality control and pre-personalization of Smart Labels/Tickets for high volume production
- Simultaneous RFID high speed encoding, inkjet marking and optical OCR/bar code verification
- AZ real time hard- and software platform guarantees 100% process control and reliability
- Unique programming system ensures high throughput for HF (e.g 40,000 tickets/hour)
- Scalable system concept offers long-term investment security and flexibility – expands with your business needs
- Modular system supports tailor-made customer solutions
- 100% quality of finalized RFID products deliver higher profit margins
- High-resolution drop-on-demand inkjet printing increases value of the finalized product



**TAGLINE**

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## About Atlantic Zeiser

The Atlantic Zeiser Group is a world-leader in industrial high-security coding and personalization technologies, offering total system solutions to governments and industries such as printing, plastic card, telecom, pharmaceutical, banking, packaging, labels and cosmetics. The company specializes in the industrial application of sensitive variable data onto various types of media – whilst ensuring full data and process integrity.

AZG serves its customers through nine facilities in Europe, the Americas and Asia as well as additional sales and support offices in some 50 nations.

Atlantic Zeiser's customers can choose from a wide variety of modular building blocks and scalable software platforms within the core technologies inkjet printing, laser marking, chip programming, magnetic encoding, product transport, product tracking, data verification and more. These can be effectively combined to achieve the most efficient system solution tailored to virtually any customer specific need.



You can find more information at [www.atlanticzeiser.com](http://www.atlanticzeiser.com), or by contacting one of our specialists directly. We will work with you to identify your specific requirements and to develop the individual solution that meets those requirements. You can also view a range of samples and test facilities at our in-house showroom. Please call us, or send an e-mail.

We look forward to providing you with advice and support!

Contact the TTT™ community: [www.rfid-ttt.com](http://www.rfid-ttt.com)

[www.atlanticzeiser.com](http://www.atlanticzeiser.com)

[www.datacon.at](http://www.datacon.at)

[www.melzergmbh.com](http://www.melzergmbh.com)

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