

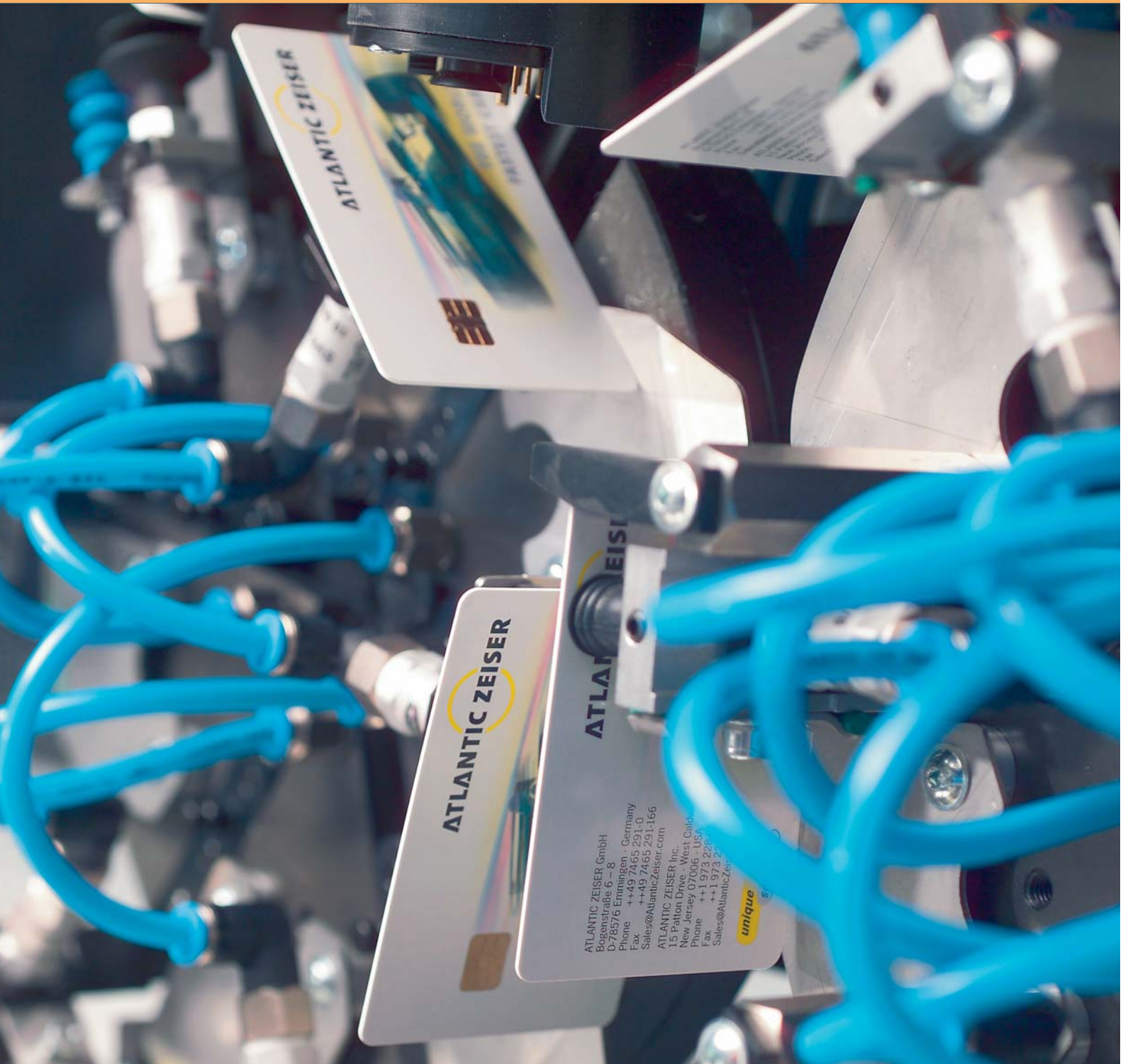
CARDLINE Module Chip Programming



CARD SYSTEMS

BRAND PROTECTION/ TRACK & TRACE

SECURITY & GENERAL PRINTING



ATLANTIC ZEISER

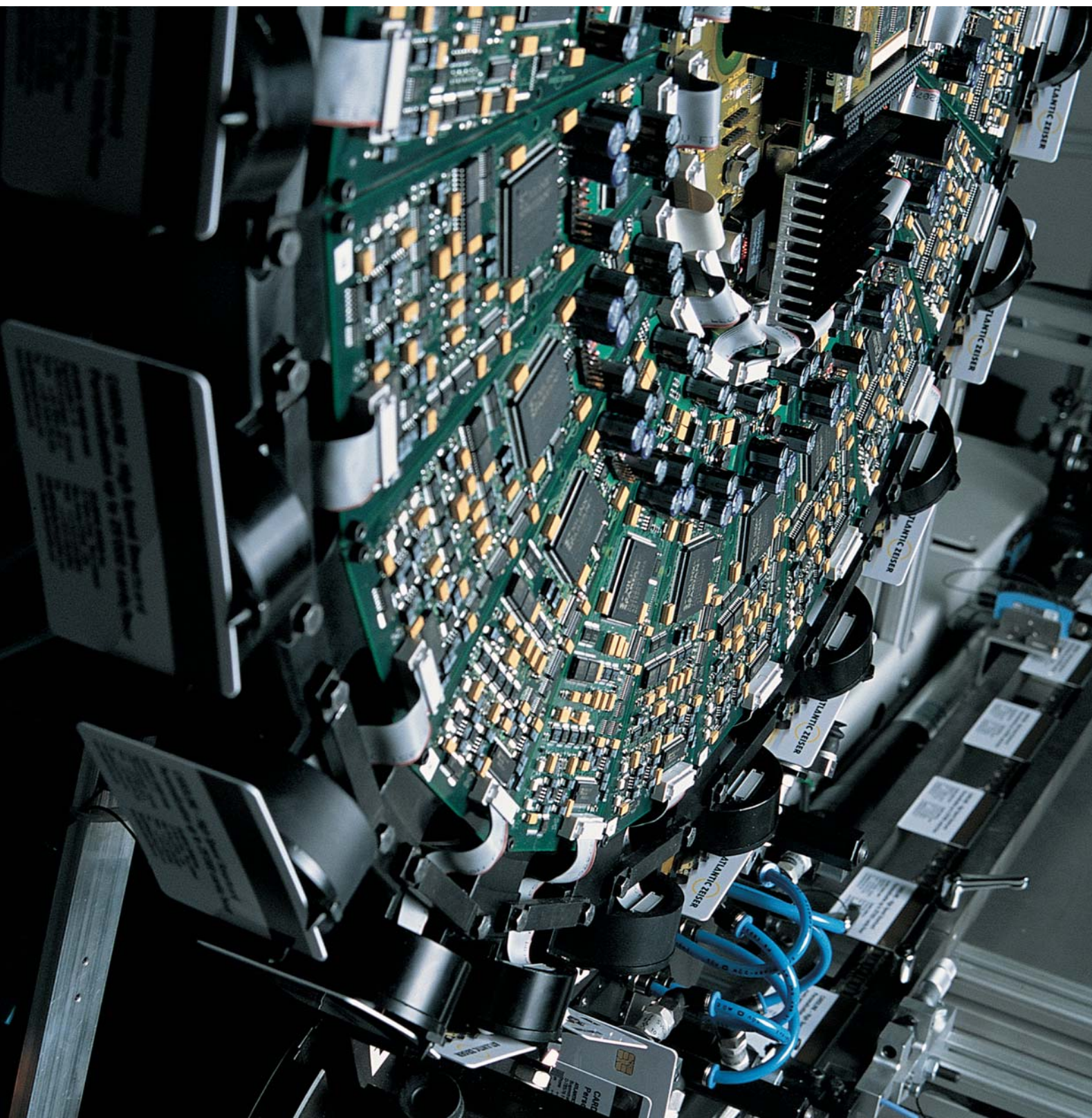
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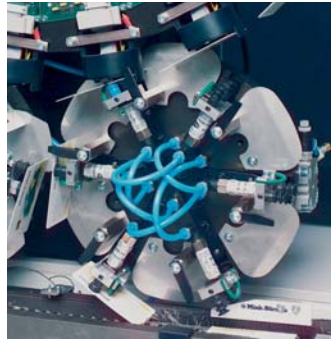
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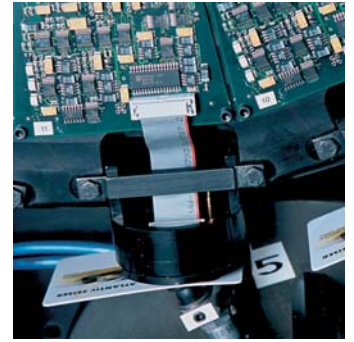
HIGH SPEED Smart Card Personalization Module

With the chip programming module ATLANTIC ZEISER is expanding the modular concept of the CARDLINE personalization system by adding a remarkable technology. The ATLANTIC ZEISER smart card programming solution covers all major application areas such as landline telephone, mobile communication, ticketing & transportation, health care or loyalty. And it fits all relevant technologies as memory, microprocessor and contactless cards.





High Speed performance with highest throughput can be reached by a continuously moving circular transport mechanism.



One of 21 programming heads for multiple use: contact and contactless cards without changing the hardware.

Low investment solution:

- Low Personalization Cost per Card
- Best investment – throughput ratio

High Speed:

- Unequaled throughput
- Reduction of production time
- Throughput up to 25'000 cards/h
- Reduction of stock inventory of semi-personalized cards due to initialization and personalization in one production step

High Flexibility:

- In-house developed reader fitting perfectly in the system
- Non-standard protocols can be implemented
- Open system architecture – Open API

Optimal Functionality:

- Same reader for contact and contactless cards. They can be programmed without hardware changes

Product optimization:

- Continuous development

Easy access:

- All parts with direct access
- Optimal maintenance
- Simple to change worn parts

Single supplier for optimized system technology:

- AZ – System supplier
- AZ – Know-how
- AZ – Perso-Script / Application development and testing
- AZ – Customer tests
- AZ – Customer specific development

Compatibility with all other CARDLINE modules:

- Feeder Module
- Flipping Module
- Magnetic Encoding Module
- Inkjet Module
- Camera Module
- UV Dryer Module
- Hotfoil Application Module
- Labelling Module
- Security Label Module
- Laser Marking Module
- Card Sort Module



Atlantic Zeiser „Software Development Kit (SDK)“ – The perfect complement, creating a total solution for chip programming.

Operating under real conditions but without blocking the Cardline, this optional hardware and software package allows the customer to develop and test personalization software or personalization scripts.

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Technical specifications – Module

Throughput	up to 25'000 cards/hour
Card size	CR80 (ID1) according ISO/IEC 7810
Number of programming heads	21
Length	913 mm / 35.9 inches
Width	869 mm / 34.2 inches
Height	2'100 mm / 82.7 inches

Technical specifications – Smart Card Reader

Type of chips	Microprocessor, memory Contactless, dual interface
Microprocessor cards	According to ISO 7816, all standard protocols (T=0, T=1) Expandable to non-standard protocols (on demand) Clock up to 20 MHz Adjustable voltage supply 0–10 V
Memory cards	Protocols: S=0, S=8, S=9, S=10 Expandable to non-standard protocols (on demand) Adjustable voltage supply 0–10 V Adjustable Vpp 0–30V
Contactless cards	According to ISO 14443 A, ISO 14443 B Programmable magnetic field Programmable frequency Programmable ASK modulation index
Maintenance	Exchange of hardware components without new calibration Easy access to hardware components

