

A close-up photograph of an industrial machine, likely a smartcard manufacturing or finishing line. The machine features various metal components, rollers, and sensors. A blue smartcard is being processed, with a QR code visible on its surface. Several green and black cables are connected to the machine. The background is slightly blurred, showing more of the industrial environment.

# Axess

# SMARTCARDS

 ENGLISH

**AXESS**

# Axess Smart Cards

**As small as a business card, and as as a computer**

Axess' wide range of smart cards is the perfect solution for your unique requirements. From choice of material to desired service life and storage capacity, our barcode and RFID cards can be individually selected and customized for any installation. Even though all our cards have different features and thus have specific applications, they share a very special thing

in common: they all meet the highest quality standards and are manufactured in our own factory in Innsbruck. Our tickets are all "made in Austria". Thanks to the cards' high-quality materials and sturdy construction, even extreme temperature fluctuations from -20 °C to 50 °C are no problem for them. Before leaving the factory, each individual ticket is subjected to

strict quality controls (ISO standard) and electronically tested. In order to give cards an individual touch and customize them perfectly for companies, they can be printed in 4-color offset or digital printing on request. This service is even possible for customer-specific small runs of 50 units or more.



Für Tickets Bildschirm berühren



NORDKETTE  
DAS JUWEL DER ALPEN

WIRTSCHAFTS  
UNIVERSITÄT  
WIEN



# Smart Card BARCODE

## High quality barcode ticket made from paperboard

The **Smart Card BARCODE** has been specifically designed for single access and is therefore ideal for accessing swimming pools, trade fairs and leisure or theme parks. In a direct thermal

printing process, the Axess **SMART PRINTER 600** prints the tickets with the relevant validity information on the front side. If required, the blanks can also be provided with a perfora-

tion to attach them to strips. These inexpensive card blanks are printed using a thermal direct printing process and do not require any further consumables.

### Technical data

#### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream
Material	Paperboard

#### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,3 mm
Corner radius	3 mm

#### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing

#### Authorization imprint

Surface	Thermo foil
Print area	34x44 mm
Imprint	direct thermal printers, one-time

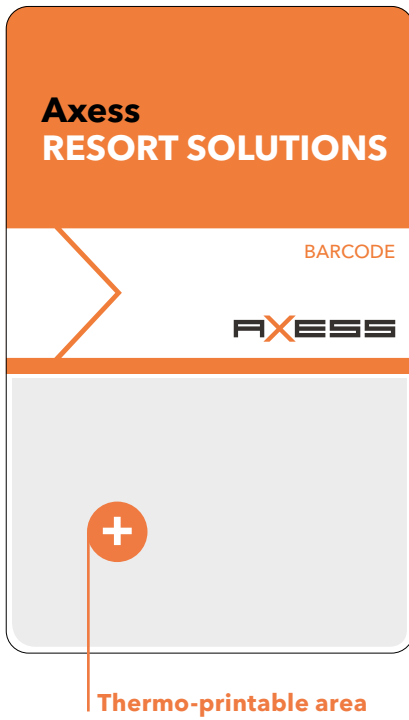
#### Optional

Perforation	
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### Features

- › Single imprint in direct thermal printing
- › Typical use: single use
- › Layout: 4-color UV offset printing, optional with protective lacquer
- › Barcode readable by scanner
- › Ticket material: Paperboard; contains no PVC or bisphenol

Front side



Reverse side



# Smart Card ONEWAY

## The professional ticket for one-time access

The **Smart Card ONEWAY** is a contactless electronic ticket designed for single usage. The integrated RFID-electronic module (chip & antenna) is used to store authorization data. A variety of ticket variations such as season tickets, points cards, event tickets,

day tickets etc. can be programmed. Depending on the RFID reader's chip type and antenna geometry, the cards can be read at a long range of between 40 and 45 cm or from short range at a distance of up to 10 cm, thus impressing with their functional-

ity. Depending on your requirements, the **Smart Card ONEWAY** is available in specially coated paperboard or in plastic. This chip card has particularly proved its value amongst our customers as a daily ticket.

### Technical data

#### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream, Water resistant
Material	Paperboard or Plastic

#### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,45 bis 0,55 mm
Corner radius	3 mm

#### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing

#### Authorization imprint

Surface	Thermo foil
Print area	34x44 mm
Imprint	direct thermal printers, one-time

#### Optional

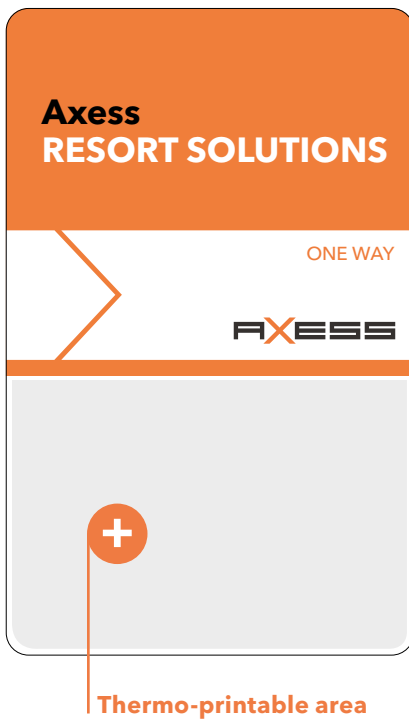
Perforation	
RFID specification	
Electronic coding	One-time
ISO 15693	NXP SLIX2, NXP SLIS
ISO 14443	On request
UHF	UCODE 8
Read/write distance	Up to 10 cm for short range antennas, up to 40 cm for long range antennas
RFID technology	HF: 13,56 MHz: ISO 15693, ISO 14443, UHF: 860 - 960 MHz; ISO 18000-6C; Inlay embedded in card

### Features

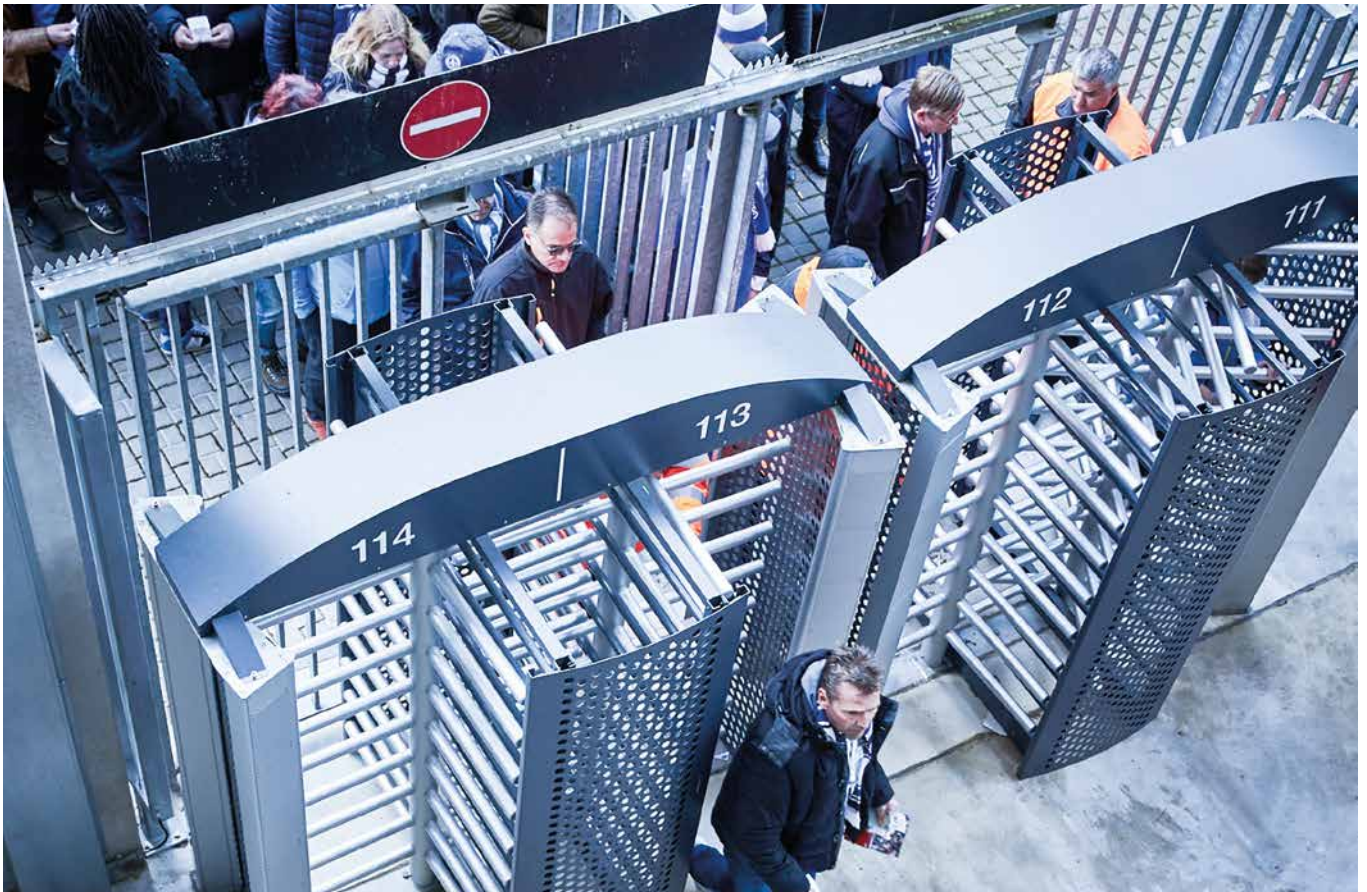
- › Single imprint in direct thermal printing
- › Typical use: Day to weekly ticket
- › One-time electronic data storage
- › Layout in 4-color UV offset printing
- › Ticket material: paperboard or plastic
- › Robust under mechanical stress
- › Robust by changing temperatures - resistant to moisture
- › Contactless data reading
- › Data storage segmented according to customer requirements; ISO 15693 RFID chip,
- › Optional ISO 14443 RFID chip
- › The chip card works completely passively
- › Optional: Perforation



Front side



Reverse side



# Smart Card RIGID

## The ticket for day and week tickets

The **Smart Card RIGID** is a further development of the **Smart Card ONEWAY**. It is ideal for short-term tickets such as day and weekly tickets. An integrated chip enables all autho-

rization data to be stored on the card. It is particularly robust and sturdy due to an innovative foil type, without being thicker than the usual **ONEWAY** paperboard tickets. With the WTP

number imprinted, the card can be reloaded conveniently from home via online portals and online shops.

## Technical data

### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream, Water resistant
Material	Plastic

### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,45 bis 0,55 mm
Corner radius	3 mm

### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing

### Authorization imprint

Surface	Thermo foil
Print area	34x44 mm,
Imprint	direct thermal printers, one-time

### Optional

Perforation	
UV ink jet printing	WTP Number, QR-Code

### RFID specification

Electronic coding	Repeated
ISO 15693	NXP SLIX2, NXP SLIS
ISO 14443	On request
UHF	UCODE 8

Read/write distance	Up to 10 cm for short range antennas, up to 40 cm for long range antennas
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RFID technology	HF: 13,56 MHz: ISO 15693, ISO 14443, UHF: 860 - 960 MHz; ISO 18000-6C; Inlay embedded in card
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## Features

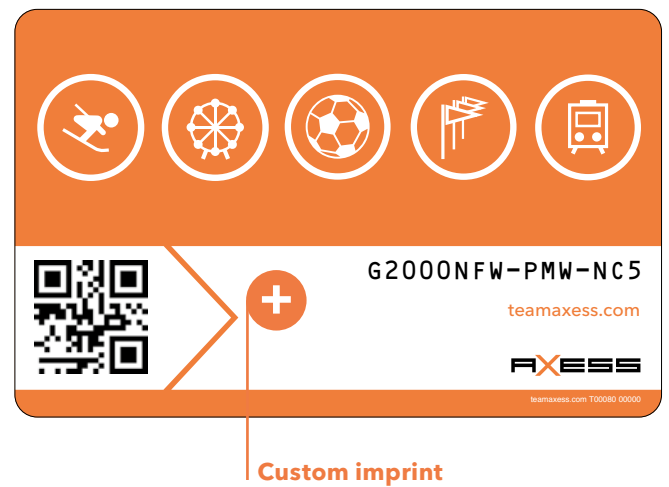
- › Single imprint in direct thermal printing
- › Typical use: month ticket
- › Repeated electronic data storage possible
- › Data storage segmented according to customer requirements
- › Layout in 4-color UV offset printing
- › High quality 0.5mm laminated paperboard card
- › Robust under mechanical stress and changing temperatures - resistant to moisture
- › Contactless data reading
- › The chip card works purely-passively
- › WTP recharging function



Front side



Reverse side



# Smart Card LITE

## The reusable season ticket

Would you like user-friendly season tickets for your guests? Axess has the optimal solution. The **Smart Card LITE** is made of plastic and is a contactless, electronic one-way ticket. The card can be coded several times, with the embedded RFID chip being

used to store authorization data. Depending on the RFID reader's chip type and antenna geometry, the cards can be read at a long range of between 40 and 45 cm or from short range at a distance of up to 10 cm. A multitude of ticket variations such

as season tickets, points cards, event tickets, day tickets, tickets for online bookings on the internet etc. can be programmed. It is also possible for a QR code to be printed onto the ticket, for instance.

## Technical data

### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream, Water resistant
Material	Plastic

### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,6 mm
Corner radius	3 mm

### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing

### Authorization imprint

Surface	Thermo foil
Print area	34x44 mm, optional 13 x 83 (Stripe)
Imprint	direct thermal printers, one-time

### Optional

Perforation	
UV ink jet printing	WTP Number, QR-Code

### RFID specification

Electronic coding	Repeated
ISO 15693	NXP SLIX2, NXP SLIS
ISO 14443	On request
UHF	UCODE 8

Read/write distance	Up to 10 cm for short range antennas, up to 40 cm for long range antennas
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RFID technology	HF: 13,56 MHz: ISO 15693, ISO 14443, UHF: 860 - 960 MHz; ISO 18000-6C; Inlay embedded in card
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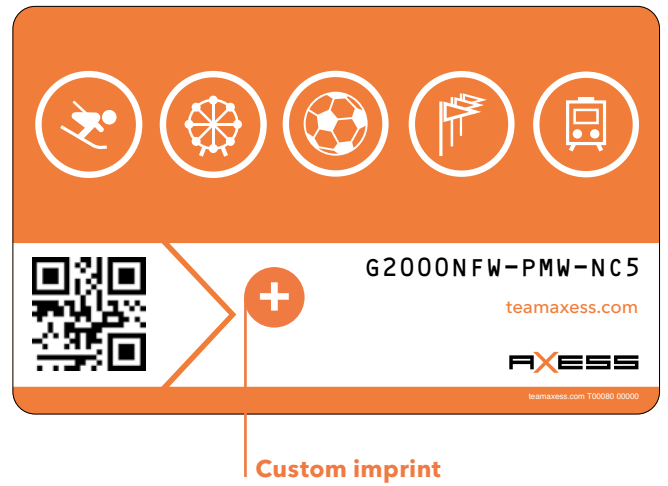
## Features

- › Single imprint in direct thermal printing
- › Typical use:  
Up to a saison ticket
- › Repeated electronic data storage possible
- › Data storage segmented according to customer requirements
- › Layout in 4-color UV offset printing; optional customer-specific QR code
- › Robust under mechanical stress and changing temperatures - resistant to moisture
- › Contactless data reading
- › The chip card works completely passively
- › WTP recharging function

Front side



Reverse side





# Smart Card TRW FULL, PART & STRIPE

## The all-rounders among authorization cards

The **Smart Cards TRW FULL, PART & STRIPE** are high quality cards with integrated RFID chip for contactless data transfer. These smart cards store the owner's personal data as well as a number of authorizations. Selected

information is printed on the full-surface ThermoReWrite (TRW) foil on the front side. Since the cards can be written on optically and electronically multiple times, they can be used for several years. The material's high

resistance to heat and cold facilitates a long service life. The cards have the same features, but have a different printable area. All **Smart Cards TRW** are easily compatible with existing third-party systems.

### Technical data

#### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream, Water resistant
Material	Plastic

#### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,9 mm
Corner radius	3 mm

#### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing, Digital printing

#### Authorization imprint

Surface	Thermo ReWrite foil
Print area	Part 44 x 30 mm, Full 44 x 84 mm, Stripe 13 x 83 mm
Imprint	direct thermal printers, multiple times

#### Optional

Perforation	
UV ink jet printing	WTP Number, QR-Code
Signature field	

#### RFID specification

Electronic coding	Repeated
ISO 15693	NXP SLIX2, NXP SLIS, TI TMS37712
ISO 14443	On request
UHF	UCODE 8
Read/write distance	Up to 10 cm for short range antennas, up to 40 cm for long range antennas
RFID technology	HF: 13,56 MHz: ISO 15693, ISO 14443, UHF: 860 – 960 MHz; ISO 18000-6C; Inlay embedded in card

### Features

- › Imprints in the Thermo ReWrite process can be deleted and reprinted multiple times
- › Typical use: Season Passes; Cards with a service life of several years
- › Data storage segmented according to customer specifications; ticket and personal data can be stored for up to 5 authorizations
- › All cards are programmable
- › Layout in 4-color UV offset printing
- › Robust under mechanical stress, direct daylight, humidity and perspiration
- › The chip card works purely passively
- › WTP recharging function

Front side **TRW PART**



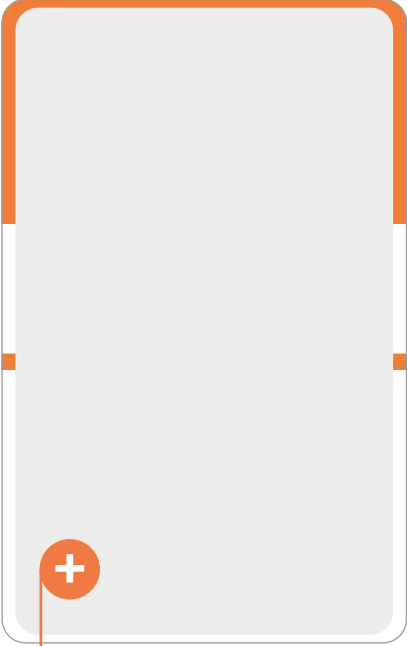
**TRW PART**  
**printable area:**  
Front side 44 x 30 mm

Front side **TRW STRIPE**



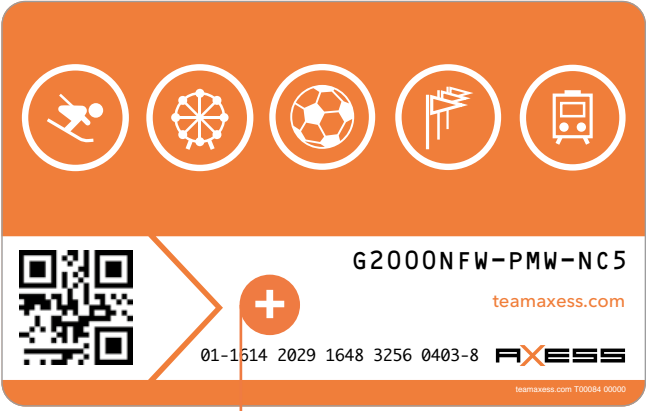
**TRW STRIPE** printable area:  
Stripe on the front side:  
13 x 83 mm

Front side **TRW FULL**



**TRW FULL** printable area:  
Front side 44 x 84 mm

Reverse side



**Custom imprint**

# Smart Card ORGANIC

## The sustainable and environmentally friendly solution

Environmental protection is close to everyone's heart. Axess has therefore decided to launch this new and environmentally friendly ticket onto the market. After a thorough test phase and trial usage, this new ticket is now

available. The **Smart Card ORGANIC** makes an environmentally important contribution without compromising the full functionality of the card. As usual, a wide variety of ticket variants such as hourly, daily or multi-day

tickets, chargeable value tickets or event tickets can be loaded. The **Smart Card ORGANIC** consists almost entirely of paper and can therefore be disposed of in a waste paper recycling container.

### Technical data

#### Basics

Operating temperature	- 20 °C bis + 50 °C
Weather resistance	Sunshine, Suncream
Material	Paperboard

#### Dimensions

Ticket format	85,6 x 54 mm
Thickness	0,45 bis 0,55 mm
Corner radius	3 mm

#### Graphic design

Layout	88,6 mm x 57 mm
Printing process	Offset printing

#### Authorization imprint

Surface	Thermo foil
Print area	34x44 mm
Imprint	direct thermal printers, one-time

#### Optional

Perforation	
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#### RFID specification

Electronic coding	One-time
ISO 15693	NXP SLIX2, NXP SLIS, TI TMS37712
ISO 14443	On request
UHF	UCODE 8

Read/write distance	Up to 10 cm for short range antennas, up to 40 cm for long range antennas
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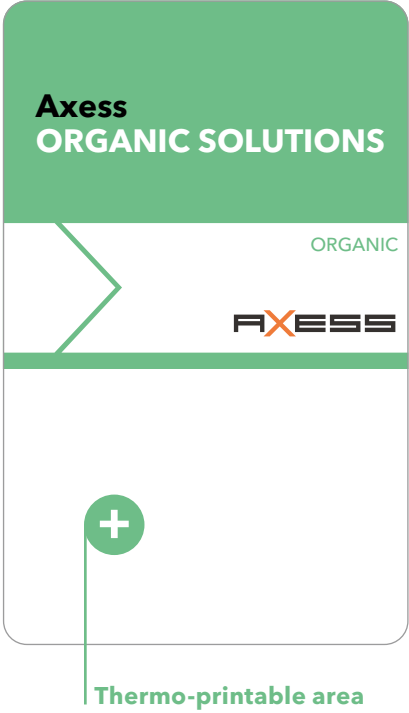
RFID technology	HF: 13,56 MHz: ISO 15693, ISO 14443, UHF: 860 - 960 MHz; ISO 18000-6C; Inlay embedded in card
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### Features

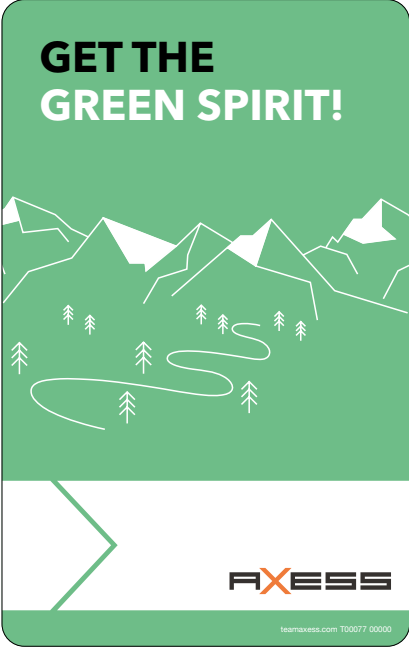
- › Single imprint in direct thermal printing
- › Typical use: day ticket
- › One-time data storage
- › Almost entirely made of paper
- › Can be disposed of in paper recycling
- › Reliable when used under normal conditions and temperatures or direct daylight
- › Layout design in 4-color UV offset printing
- › Contactless reading of data
- › Card reading using an ISO 15693 chip for long ranges up to 45 cm or an ISO 14443 chip for short ranges up to 10 cm



Front side



Reverse side





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# **Axess**

# Smart Cards

**Axess AG**

Sonystrasse 18, 5081 Anif/Salzburg, Austria  
T: +43 6246 202  
F: +43 6246 202 90  
[info@teamaxess.com](mailto:info@teamaxess.com)  
[teamaxess.com](http://teamaxess.com)