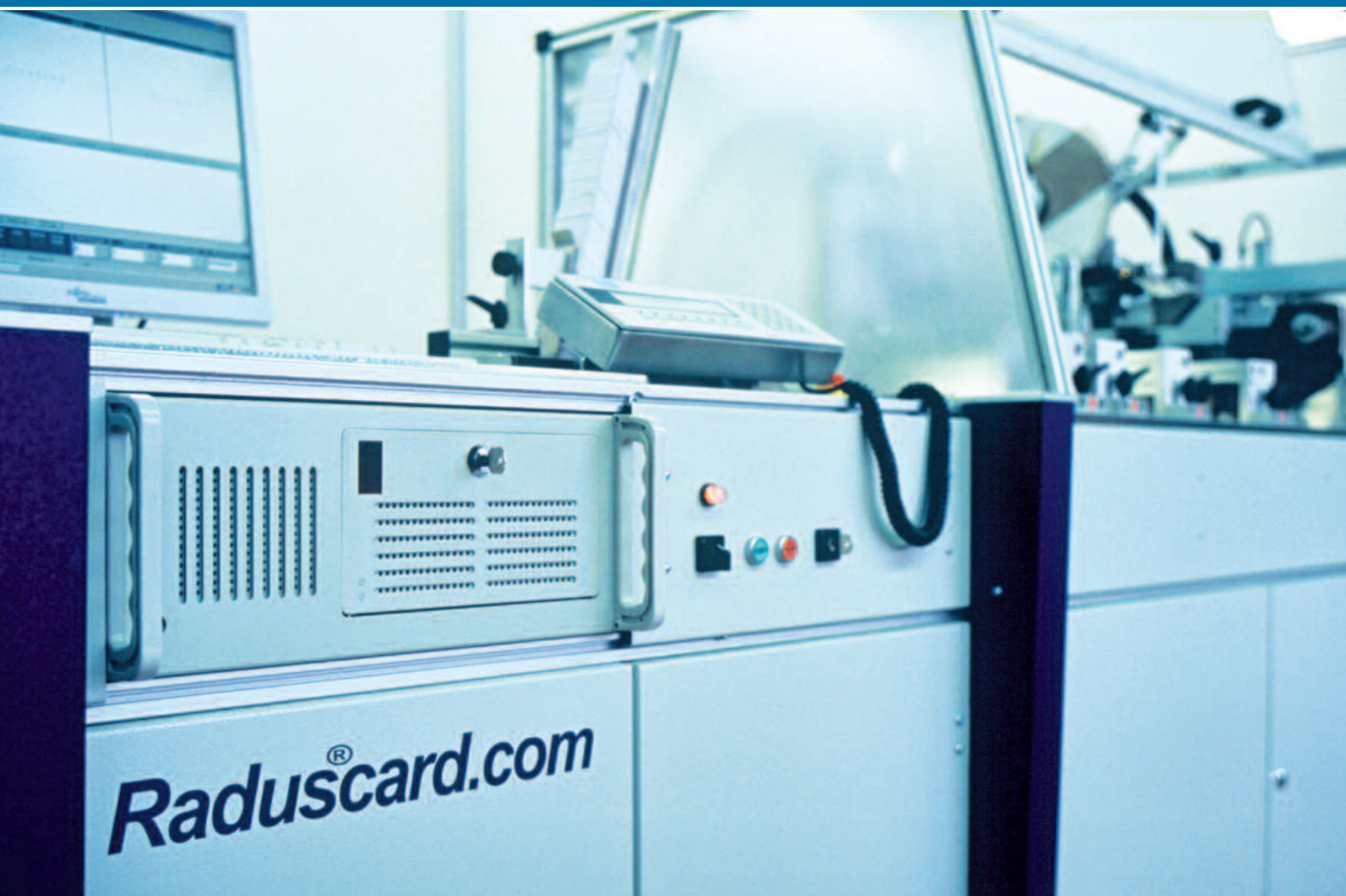




modular | flexible | future-oriented

# RADUSCARD<sup>®</sup> SYSTEMS



SCRATCH | CARDS

# RADUS<sup>®</sup> SCRATCH CARDS / RECHARGE VOUCHERS

Customized Configurations – Any Time Extendibility

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## RADUSCARD

### DATABASE PRINT PERSONALIZATION AND MULTIPLE SCRATCH PANEL APPLICATION

The world market demands billions of scratch cards as calling cards, recharge vouchers for mobile phones and internet access cards.

Besides standard cards with one scratch panel, more and more multi-voucher cards are being introduced in order to compensate for the lower recharge values. New layouts are launched more and more frequently, requiring highly flexible machinery.

The RADUSCARD for scratch cards with its unique retrofit concept provides future-proof investment in a flexible and modular machine. It allows entry configurations for start-ups as get-in business solutions as well as extended and specialized machine configurations. If changing markets require quick reactions, further modules are simply retrofit on demand.

The convincing retrofit technology, the legendary durability, a well-established and simple machine operation, the unique data security concept and low maintenance requirements are making the RADUSCARD the first choice for emerging markets.

Selection of devices:

- \_ up to 4 single nozzle inkjets or 1 UV-DOD inkjet
- \_ dedicated space for two scratch panel applicators installations
  - label / hot – for quick job interchange or customizing labels
  - hot / hot – for multi-panel cards or customizing scratch panels
- \_ 1 or 2 cameras for data and scratch panel supervision
- \_ turn-over unit for frontside/backside imprints

**RADUSCARD – the superior get-in-business solution!**

#### Feeding Module

Friction-drive separator for cardboard and plastic cards, capacity of 400 mm (800 cards at 0,5 mm). Magazine can be refilled during machine run. Feeder is easily adjustable to card thickness from 0,25 – 1,0 mm.

#### Print Personalization

360 dpi high-resolution DOD inkjet, 300 dpi thermo transfer print engine or continuous single-nozzle inkjet with 24 dot matrix available. Database print personalization of PIN, serial numbers and barcodes, single and multi-line.

#### Camera Inspection System

OCR and barcode imprints are verified for integrity and legibility, scratch panels are checked for position and integrity. Each camera scans up to three fields simultaneously. The integrated system software compares the scanned array, defective cards are rejected into a locked box.







## SPECIFICATIONS

Fully automatic inkjet coding and scratch panel application system for ISO-sized calling cards, recharge vouchers and internet access cards.

### Functions

- \_Inkjet coding, single and multi-line
- \_Scratch panel application by hot stamping and labeler
- \_Multi-voucher cards – up to 4 scratch panels
- \_Customized scratch panel generation
- \_Verifying of imprints and scratch panels by camera system
- \_Rejection of defective cards
- \_Selection of reproduction mode inline, after main run and on demand
- \_Gapless event reporting by logfiles

### Main System RadusCard

Control	Microprocessor
Control desk	Display with keyboard
PC control system	Windows™
Data encryption	AES, 3DES, PGP etc.
Card format	ISO CR80: 85,6 mm x 54 mm (3 3/8" x 2 1/8")
Thickness	0,25 – 1,0 mm (10 – 40 mil), different upon request
Material	Cardboard, plastics such as PVC, ABS, PP etc.
Magazine size	800 cards (0,5 mm)
Performance	up to 12.000 cards/h with hot stamping unit up to 15.000 cards/h with labelling unit

### Print System I

Continuous single nozzle inkjet, MEK-inks, fast drying

### Print System II

DOD inkjet 360dpi with UV curing

### Label

Continuous Labeler (Plug-In unit)  
Roll Ø max. 12" (optional 360 mm), core 1.5" or 3"  
Width up to 20 mm (optional 60 mm)

### Hotstamping

Pneumatic (Plug-In unit), with interchangeable dies  
Foil size max. 55 mm wide (optional 100 mm), 115 mm Ø, core 1" or 3"  
Stamping width max. 50 mm (optional 90 mm)

### Camera system

CCD-cameras with adjustable aperture and focus  
Adjustable from detailed to full card size, three individually programmable fields for each camera  
machine fonts  
all usual barcodes  
surface recognition  
Verification for presence, integrity and position  
high frequency lighting

### Connections

Compressed air 6 – 8 bar, oil free and dry  
Power supply single phase 200/240V, 50/60Hz, consumption max. 1kW  
Measures 2970 x 790 x 1510 mm (length x depth x height)  
Weight approx. 500kg, depending on configuration

### Foil Hot Stamping

The powerful pneumatic hot stamping device covers the secret PIN at rates up to 12.000 cards/hour. Operating two hot stamping units simultaneously enables generation of customized panels or multi-panel cards.

### Label Application

Instead of hot stamped scratch panels, self-adhesive labels (stickers) can be used for concealing secret data also. The machine performance increases up to 15.000 cards/hour.

### Card Delivery / Reject Box

Finished cards are stacked up in sequence, the magazine can be cleared during machine run. Cards with incorrect imprints are rejected into a locked box.



