

# ID WORLD

THE PLAYERS OF THE AUTO ID INDUSTRY

# CARDS

# 2022 BUYER'S GUIDE

## Rinas Gerätetechnik

## Pioneer in magnetic stripe technology – partner of choice for innovative encoding systems



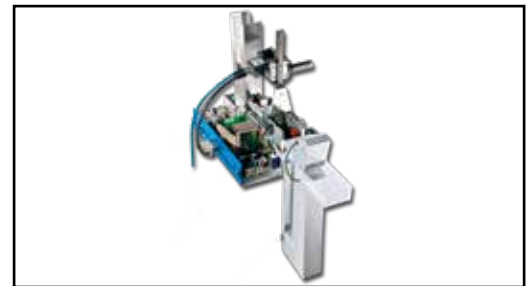
Since 1984, Rinas has been a leading innovator and driving influence behind sophisticated magnetic stripe technologies within the card manufacturing and system integration marketplaces. Rinas maintains a clear and highly-focused corporate engineering strategy that concentrates on developing and manufacturing high-precision OEM and stand-alone card encoding systems for magnetic, RFID and chip cards. Mechanical components are produced in-house using state-of-the-art CNC 5-axis technology.

Regardless whether standard or bespoke system solutions are required, Rinas develops all of them to the highest degree of precision – from the initial circuit diagram concept to the layout of the complete circuit board; from mechanical construction and customised software development to the assembly of complex modules and devices.

So, whether you need to encode, print, scan or sort industry standard or customised card and

ticket formats then Rinas is your one-stop-shop for:

- magnetic, RFID or smart card encoding solutions;
- encoding solutions with scan and print functionality;
- multi-RFID encoding systems for paper and plastic cards;
- card personalisation printing units;
- scanning solutions for 1D/2D codes and OCR text recognition



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www.rinas.com  
info@rinas.com

## SPS

## Providing secure and high added value components for card and document manufacturers

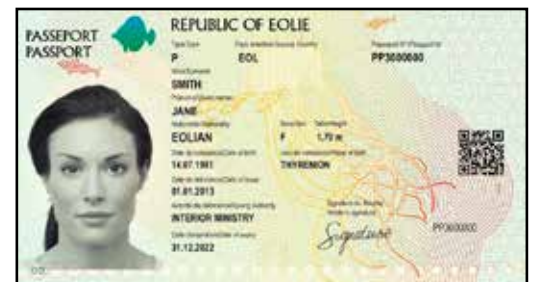


SPS has delivered several million epassport inlays and e covers based on its unique ebooster technology to Asian, African, and European countries. The Teslin based inlay uses an inductive coupling technology, where there is no physical connection between the antenna and the chip's module enhancing the durability of the passport. SPS' technology is designed to accept all chip and OS suppliers on the market, offering a highly reliable and cost effective solution to passport manufacturers. SPS offers unique security features which gives the final passport a unique added value. SPS also proposes a complete offer for Polycarbonate data pages from finished datapage to hinge inlay and electronic components.

The company is specialized in the design, manufacture and sale of contactless solutions based on inductive coupling technology and dedicated to ID cards, e-passport and dual interface banking cards. Headquartered in Rousset, France, with a subsidiary in Singapore, SPS employs 150 people. Part of IN

Groupe, one of the global leaders in secure identity solutions, the company specializes in contactless and dual-interface products, with a recognized micro packaging expertise. SPS has filed over 120 patents supporting its exclusive technologies.

As a world leader in dual interface banking and e-ID documents, the company brings value to its customers by pre-certifying the performance of cards using its technology and guaranteeing card functionality in the field.



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www.s-p-s.com  
contact@s-p-s.com

<b>ABCorp</b> www.abcorp.com	<b>MF -C, RFID, NFC -C (MG, CM, SM, CL, FP), M (SL), TAG (RF&lt;HF&gt;)</b> 2200 Fletcher Avenue, 07024 Fort Lee, NJ, Usa	Tel. 1/201/592/3400	Fax 1/201/224/2762
<b>Access IS Limited (an HID company)</b> www.access-is.com	<b>MF -C, RFID - R (OCR, RF, CL, BC), DC - R (OCR, RF, CL, BC), BC -R (RF, CL, POS)</b> 18 Suttons Business Park, Reading, Berkshire, RG6 1AZ, United Kingdom	Tel. 44/7748/770 632	Fax 44/118/926/7281
<b>ActivIdentity (HID)</b> www.actividentity.com	<b>MF, SH -C -C (SM), R(HH), T (HH), SW</b> 6623 Dumbarton Circle, 94555 Fremont, CA, Usa	Tel. 1/510/5740100	Fax 1/510/5740101
<b>AEG Identifikationssysteme GmbH</b> www.aegid.de	<b>MF, SI -C, RFID -C (MG, CM, SM, CL, OPT), M (L, SL, TTR, I) TAG (RF&lt;LF, HF, UHF&gt;), IC, A, P (POS) R (HH, FX, RF, I), RF, EP, GP</b> Hörvelsinger Weg 47, 89081 Ulm, Germany	Tel. 49/7/3114/00880	Fax 49/7/3114/0088/9000
<b>Alp Vision</b> www.alpvision.com	<b>SH, SI - C, DC - SW, M (MK, VF)</b> Rue du clos 12, 1800 Vevey, Switzerland	Tel. 41/21 948/6464	
<b>Arjo Systems</b> www.arjo-systems.com	<b>SH, SI - B, C -C(CL,CM,SM), DC, EP, GP, H, NFC, R, RFID, T(VT)</b> 32 rue Jacques Ibert, 92300, Levallois-Perret, France	Tel. +33 (0)181938850	
<b>ARM Ltd</b> www.arm.com	<b>MF -C -IC</b> 110 Fulbourn Road, CB1-9 NJ Cambridge, UK	Tel. 44/1223/400400	Fax 44/1223/400410
<b>ASK</b> www.ask-rfid.com	<b>MF -C, RFID -C (CL), M (SL), TAG (RF&lt;HF, UHF&gt;), P (HH), R (HH)</b> 2260 route des Crêtes, BP337, 06906 Sophia-Antipolis, France	Tel. 33/4/97214000	Fax 33/4/92389321
<b>Atlantic Zeiser</b> www.atlanticzeiser.com	<b>MF, SI, SH -C, RFID -M (L, SL), C (MG, CM, SM, CL, FP), TAG (MK, RF&lt;HF,UHF&gt;), P (I), R (RF), SW, EP, GP, MC, MV</b> Bogenstraße 6-8, 78576 Emmingen, Germany	Tel. 49/7465/2910	Fax 49/7465/291166
<b>Atmel</b> www.atmel.com	<b>MF -RFID -IC (CL, RF&lt;LF, HF, UHF, MW&gt;)</b> 2325 Orchard Parkway, 95131 San Jose, CA, Usa	Tel. 1/408/4410311	Fax 1/408/4364200
<b>Atos Worldline</b> www.atosworldline.be	<b>MF -C -T(POS, HH)</b> 1442 Chaussée de Haecht, 1130 Bruxelles, Belgium	Tel. 32/2/727/6111	Fax 32/2/727/6767
<b>Austria Card</b> www.austriacard.at	<b>MF, SH -C -C (MG, CM, SM, CL), M (L, H), A, SW, EP, GP</b> Lamezanstrasse 4-8 , 1230 Vienna , Austria	Tel. 43/1/610650	Fax 43/1/61065701
<b>Axcess International, Inc</b> www.axcessinc.com	<b>MF, SI -RFID, C -TAG (RF), R, SW</b> 3208 Commander Drive, 75006 Carrollton, TX, Usa	Tel. 1/972/4076080	Fax 1/972/4079085

## LEGENDA

### ROLE IN THE VALUE CHAIN

D = Distributor  
MF = Manufacturer  
SH = Software House  
SI = System Integrator  
VAR = Value Added Reseller

### TECHNOLOGIES

B = Biometrics  
BC = Barcode  
C = Cards  
DC = Data Collection  
NFC = Near Field Comm.  
RFID = Radio Frequency Identification Device  
RTLS = Real Time Loc. System

### PRODUCT CATEGORIES

A = Antenna  
C = Cards  
EP = Electronic Personalization  
GP = Graphic Personalization  
IC = Integrated Circuits  
M = Media  
MC = Machinery  
MV = Machine Vision  
P = Printers  
R = Readers  
S = Scanners  
SW = Software  
T = Terminals  
TAG = Tags  
VR = Voice Recognition

### PRODUCT SPECIFICATIONS

BT = Batch  
BC = Barcode  
CL = Contactless  
CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
DNA = DNA  
EAS = Electronic Art. Surveillance  
FF = Facial Feature  
FP = Fingerprint  
FX = Fixed  
H = Holograms  
HF = High Frequency  
HG = Hand Geometry  
HH = Handheld  
I = Industrial

IF = Iris Feature  
L = Labels  
LF = Low Frequency  
MG = Magnetic  
MK = Marking  
MW = Microwave  
OCR = Optical Char. Recognition  
OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal

<b>Bell ID BV</b> www.bellid.com	<b>SH -C -SW</b> Stationsplein 45 - Unit A6.002, 3013 AKRotterdam, The Netherlands	Tel. 31/10/885/1010	Fax 31/10/885/1011
<b>BioLink Solutions</b> www.biolinksolutions.com	<b>MF, SI -B, C -C (FP), S, SW</b> PO Box 404, _/_ IPS, 511 Avenue of the Americas, PMB 572, 10011 New York, NY, Usa	Tel. 44/808/189/1360	
<b>BGI</b> www.bginge.com	<b>MF-C, RFID-C (CM, CP, MG)</b> ZAC de la Goulgatiere, 4 rue Paul Langevin, 35220 Chateaubourg, France	Tel. 33/2/99008997	Fax 33/2/99008998
<b>Blumer Maschinenbau AG</b> www.blumerag.com	<b>MF -C -MC</b> Libernstrasse 22, 8112 Otelfingen, Switzerland	Tel. 41/1/8476565	Fax 41/1/8476566
<b>Böwe Cardtec GmbH</b> www.boewe-cardtec.com	<b>MF -C -MC, SW</b> Balhorner Feld 28 , 33106 Paderborn, Germany	Tel. 49/5251/180860	Fax 49/5251/1808699
<b>Bundesdruckerei GmbH</b> www.bundesdruckerei.de	<b>MF, SI, D, SH -C, B -C (SM, CL, FP), P, R (HH, FX), T (FP, FP, FF, VF), SW, EP, GP</b> Oranienstrasse 91, 10969 Berlin, Germany	Tel. 49/30/25980	Fax 49/30/25982205
<b>CardLogix Corp.</b> www.cardlogix.com	<b>MF, SH -C -C (MG, CM, S, CL), P (I), T (POS), SW</b> 16 Hughes, Suite 100, 92618 Irvine, CA, U.S.A.	Tel. 1/949/380/1312	Fax 1/949/380/1428
<b>CodeCiphers</b> www.codeciphers.com	<b>MF, SH -B, C -C (CL) B, IC</b> Rua Bogaert 107 Villa Verneha, 04298-020 Sao Paulo, Brazil	Tel. 55/11/2175/1106	Fax 55/11/2175/1171
<b>Cogent Systems, 3M</b> www.cogentsystems.com	<b>MF -B, C, RFID, BC -C (MG, CM, SM, CL, OPT, FP), TAG (RF &lt;HF&gt;) R (HH, FX), S (FX POS, I) T (HH, FX, RF, I, BC, FP, IF, FF), SW, EP</b> 639 N. Rosemead Blvd., 91107 Pasadena, CA, Usa	Tel. 1/626/325/9600	Fax 1/626/325/9700
<b>Comercial Arqué</b> www.arque.com	<b>VAR -C, RFID, BC -C (MG, CL), TAG (RF&lt;HF, UHF&gt;), A, P (I, TTR)</b> Carretera del Mig. No 54, L'Hospitalet de Llobregat, 8907 Barcelona, Spain	Tel. 34/932635100	Fax 34/933372690
<b>Confidex Ltd.</b> www.confidex.com	<b>MF -RFID, NFC -TAG (RF&lt;HF, UHF&gt;, I), M (SL), C (CL)</b> Haarlankatu 1B, 33230 Tampere, Finland	Tel. 358/10/4244 100	Fax 358/10/4244 110
<b>Cryptomathic Ltd</b> www.cryptomathic.com	<b>SH, SI -C -SW</b> 327 Cambridge Science Park, Milton Road, CB4 0WG Cambridge, UK	Tel. 44/1223/225350	Fax 44/1223/225351
<b>De La Rue ID Systems (HID company)</b> www.delarue.com	<b>MF, SI -C -C (CM, CL, SM, FP), SW</b> De La Rue House, Jays Close, RG22 4BS Basingstoke, UK	Tel. 44/1256/605000	Fax 44/1256/605004
<b>Deister Electronic</b> www.deister.com	<b>MF -C, RFID -C (CL), TAG (RF&lt;LF, HF, UHF&gt;), R (HH, FX, RF, I), T (RF)</b> Hermann-Bahlsen-Str. 11, 30890 Barsinghausen, Germany	Tel. 49/5105/516111	Fax 49/5105/516217
<b>Dermalog Identification System GmbH</b> www.dermalog.com	<b>MF, SH, SI, VAR, D -B, C, RFID, BC -C (CM, SM, CL, OPT, FP), TAG (RF &lt;HF&gt;), A, R (HH, FX, RF, I), S (HH, FX, POS, I), T (HH, RF, BC, FP), SW</b> Mittelweg 120, 20148 Hamburg, Germany	Tel. 49/40/4132270	Fax 49/40/41322789
<b>Digital Identification Solutions AG</b> www.digital-identification.com	<b>MF, SH, SI -C, B -C (CM, CL, SM, MG, OPT, FP), M (TTR, H, I), P (CP, I, TTR), EP, GP, SW, MC</b> Teckstrasse 52, 73734 Esslingen, Germany	Tel. 49/711/3416890	Fax 49/711/341689550



**Diletta Maschinenteknik GmbH**

www.diletta.com

**MF -C, RFID -C (CL), P (I), GP, EP, MC**

Industriestrasse 25-27, 64569 Nauheim, Germany

Tel. +49/6152/1804 - 0 Fax +49/6152/1804 - 22



For more than five decades DILETTA has been engaged in producing identity products and security systems for governments and other national institutions. DILETTA offers complete systems for centralized and decentralized personalization of high security travel documents which support all safety criteria, contactless chip technology and machine readable features. With over 30,000 installations in more than 100 countries we have gathered an amazing expertise and ample experience.

**Elatec GmbH**

www.elatec-rfid.com

**MF -C, RFID -C (CM, SM, CL), M (L, SL, I), TAG (RF<LF, HF, UHF, MW>), R (HH, FX, RF, I), SW**

Max-Planck-Str. 16, 82223 Eichenau, Germany

Tel. 49/8141/534980 Fax 49/8141/5349829

**Elsag Datamat**

www.elsagdatamat.com

**MF, SH, SI -C, B, RFID, DC -C (CM, SM, CL), TAG (RF<HF, UHF>), P (I), R (HH, FX, RF, I), S (POS, I, OCR), T (FP, FF), SW, GP, EP**

Via Puccini, 2, 16154 Genova, Italy

Tel. 39/010/6582215 Fax 39/010/6512329

**Elyctis**

www.elyctis.fr

**MF, SH - C, RFID - R (RF, HH, FX, CL, OCR), SW**

240 rue François Gernelle, 84120 Pertuis – France

Tel. +33 6 27 71 37 68

**EMJ Data Systems Ltd**

www.emj.ca

**D-BC, DC, C, RFID, B-C (MG, CM, SM, FP), M (L, TTR, H), A, P (CP, I, TTR), R (HH, FX, I), S (HH, FX, POS, I), T (HH, FX, RF, I, BT, BC, FP, VT)**

7067 Wellington Road. 124, RR6, N1H 6J3 Guelph, ON, Canada

Tel. 1/800/265/7212 Fax 1/877/801/6300

**Entrust Datacard**

www.entrustdatacard.com

**MF -C, B -C (CM, SM, CL, FP), EP**

1187 Park Place, Shakopee, MN 55379, USA

Tel. 1/952/933 1223 Fax 44/1489/555601

**Evolis**

www.evolis.com

**MF -C, RFID -C (MG, CM, SM, CL), M (TTR, H), TAG (RF <LF, HF, UHF, MW>), P (CP, I, TTR, POS), T (POS), SW, EP, GP**

14 avenue de la Fontaine, 49070 Beaucouze, France

Tel. 33/2/41367606 Fax 33/2/41367612

**Exceet Group**

www.exceet.ch

**MF -C, RFID -C (CM, CL, SM), R (HH), TAG (RF <LF, HF, UHF, MW>)**

Marktplatz 4, CH-9004 St. Gallen, Switzerland

Tel. 41/4179848/56

**Fargo Electronics Inc**

www.fargo.com

**MF -C -P (CP, I, TTR), C (MG, CM, SM, CL)**

6533, Flying Cloud Drive, 55344 Eden Prairie, MN, Usa

Tel. 1/952/9419470 Fax 1/952/9417836

**Fastcards**

www.fastcards.com.au

**MF, SH -C, BC, RFID, B -C (MG, CM, SM, CL)**

PO Box 3888, 4101 South Brisbane, Qld, Australia

Tel. 61/7/38444623 Fax 61/7/38464591

**Feig Electronic GmbH**

www.feig.de

**MF -RFID, NFC -R (HH, FX, RF, I)**

Lange Strasse 4, 35781 Weilburg, Germany

Tel. 49/6471/31090 Fax 49/6471/310999

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 UHF = Ultra High Frequency  
 VF = Verifier  
 VT = Vehicle Terminal

<b>Fingerprint Cards AB</b> www.fingerprints.com	<b>MF -B -IC, T (FP), C (FP), SW</b> P O Box 2412 (Kungssportsplatsen 2), 403 16 Gothenburg, Sweden	Tel. 46/31/607820	Fax 46/31/137385
<b>FobaLaserMarking + Engraving(Alltech)</b> www.fobalaser.com	<b>MF -C, DC -MC, TAG (MK), MV</b> An der Trave 27-31, 23923 Selmsdorf, Germany	Tel. 49/38823/550	Fax 49/38823/55222
<b>Fortress GB Limited</b> www.fortressgb.com	<b>SI -RFID, C -C (SM, CL, FP), TAG (RF&lt;HF&gt;), T (HH, FX, RF, HG, POS), SW</b> South Block, Tavistock Square, Tavistock House, WC1H 9LG London, UK	Tel. 44/20/7874/7595	Fax 44/7874/7599
<b>Gemalto (Thales company)</b> www.gemalto.com/govt	<b>MF -C -C (CM, SM, CL), EP, GP, T (HH, POS), R (FX, HH), SW</b> 6, rue de la Verrerie, 92127 Meudon Cedex, France	Tel. 33/1/5501/50 00	
<b>GET Group</b> www.getgroup.com	<b>SI - C - P (CL, CM, VF)</b> 230 Third Avenue, Waltham, MA 02451 – USA	Tel. +1 781 890-6700	Fax +1 781 890-6320
<b>Ghirlanda SpA</b> www.ghirlanda.it	<b>MF, SI -C -C (MG, SM), SW, GP, EP</b> via Galileo Ferraris, 80/90, 20010 Marcallo con Casone, MI, Italy	Tel. 39/02/972331	Fax 39/02/9761657
<b>Giesecke &amp; Devrient GmbH</b> www.gi-de.com	<b>MF, SI -C, B, NFC, RFID -C (SM, CL, FP), M (H), IC, P (CP, I), R (FX), T (FX, BC, FP, FF), EP, GP</b> Prinzregentenstrasse 159, 81677 Munich, Germany	Tel. 49/89/41190	Fax 49/89/41191535
<b>HID Global</b> www.hidglobal.com	<b>MF -C, RFID -C (MG, CM, SM, CL, OPT), M (TTR, H, I), TAG (RF&lt;LF, HF&gt;), IC, P (CP, I, TTR, POS), R (HH, FX, RF, I), SW, EP</b> 15370 Barranca Pkwy, 92618 Irvine, CA, Usa	Tel. 1/949/732/2000	Fax 1/949/732/2120
<b>Hirsch Electronics Corp.</b> www.hirschelectronics.com	<b>MF -B, C, RFID -C (MG, CM, SM, CL, OPT, FP), TAG (RF&lt;LF, HF, MW&gt;), R (HH, FX, RF, I), T (HH, FX, RF, I, BC, FP, IF, VT, VF), SW, EP, GP</b> 1900-B Carnegie Ave., 92705 Santa Ana, CA, Usa	Tel. 1/949/250/8888	Fax 1/949/250/7372
<b>HJP Consulting</b> www.hjp-consulting.com	<b>SH, SI -C, RFID -SW</b> Hauptstraße 35, 33178 Borcheln, Germany	Tel. 49/5251/417760	Fax 49/5251/4177666
<b>Honeywell Access Systems</b> www.honeywellaccess.com	<b>MF, SH -RFID, B -C (MG, CM, SM, CL, FP), M (TTR, H), P (TTR), R (HH, RF), S (HH)</b> 2700 Blankenbaker Pkwy, Suite 150, 40291 Louisville, KY, Usa	Tel. 1/800/6753364	Fax 1/502/2975770
<b>IAI Industrial Systems</b> www.iai.nl	<b>MF - C - EP</b> De Run 5406, 5504 DE Veldhoven – The Netherlands	Tel. 31/40/2542445	Fax 31/40/2545635
<b>Identitas</b> www.identitas.it	<b>D -C, B -C (CM, SM, OPT), T (FP), GP, EP</b> Via Tiburtina 912, 00156 Rome, Italy	Tel. 39/06/4072199	Fax 39/06/4086199
<b>Identive Group</b> www.identive-transponders.com	<b>MF -RFID -TAG (RF&lt;HF, UHF&gt;), M (SL), D – RFID, NFC – IC, TAG (RF&lt;LF, HF&gt;)</b> Mu_hlweg 2c, 82054 Sauerlach, Germany	Tel. 49/8104/6495100	Fax 49/8104/6495110
<b>Idesco Oy</b> www.idesco.fi	<b>MF -RFID, C -C (SM, CL), TAG (RF&lt;LF, HF&gt;), R (RF), T (RF)</b> Teknologiantie 9, 90570 Oulu, Finland	Tel. 358/20/74384175	Fax 358/20/7434176
<b>IDTeck</b> www.idteck.com	<b>MF, D -C, B, RFID -C (CM, SM, CL), TAG (RF&lt;LF, HF, UHF&gt;), T (RF, FP, FF, VF), SW</b> 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangsuh-Gu, 157-030 Seoul, Korea	Tel. 82/2/26590055	Fax 82/2/6590086
<b>iDTronic</b> www.idtronic-group.com	<b>MF -C, RFID -C (CL), M (SL), TAG (RF&lt;LF, HF, UHF&gt;), R (HH, FX, RF, I), T (RF)</b> Donnersbergweg 1, 67059 Ludwigshafen am Rhein, Germany	Tel. 49/621/66900940	Fax 49/621/66900949

<b>Imprimerie Nationale Groupe</b> www.imprimerienationale.fr	<b>MF, SI, - C, B - C, EP, R, SW</b> 104 avenue du Président Kennedy, 75016 Paris	Tel. 33 01 4058300	Fax 33 01 40583085
<b>ImageWare Systems, Inc.</b> www.iwsinc.com	<b>MF, SH -B, C -T (FP, HG, IF, FF), VR, SW</b> 10883 Thornmint Rd , 92127 San Diego, CA, Usa	Tel. 1/858/673/8600	Fax 1/858/673/1770
<b>Industrial Innovation Group</b> www.industrialinnovationgroup.com	<b>MF, SH - C, B, NFC, RFID - C(MG, CM, SM, CL, FP), M(L, H), TAG(RF), P(I), SW, EP, GP, MC</b> Building Z-2, Executive suite 85, SAIF Zone, Sharjah a/p, P.O. Box 9015, Sharjah, UAE	Tel. 00971 6557 0725	Fax 00971 6557 4810
<b>Infineon Technologies AG</b> www.infineon.com	<b>MF -RFID, C -IC</b> Am Campeon 1 - 15, 85579 Neubiberg, Germany	Tel. 0800/4001	
	Infineon is a world leader in semiconductors. Combining entrepreneurial success with responsible action, at Infineon we make the world easier, safer and greener. Infineon designs, develops, manufactures and markets semiconductors and system solutions. The focus is on automotive & industrial electronics, RF applications, mobile devices and hardware-based security. We are playing a key role in shaping a better future – with microelectronics that link the digital and the real world. Our semiconductors enable smart mobility, efficient energy management and the secure capture and transfer of data.		
<b>Ingenico</b> www.ingenico.com	<b>SH, SI -C, B -T (HH, FX, RF, CL, BC, FP, POS), SW, VT</b> 192 avenue Charles de Gaulle, 92200 Neuilly, France	Tel. 33/1/46258200	Fax 33/1/47725695
<b>Innova Card</b> www.innova-card.com	<b>MF -C -IC, SW</b> ZI Athélia IV - Le Forum, Bât. A, Quartier Roumagoua, 13600 La Ciotat , France	Tel. 33/4/42981480	Fax 33/4/42083319
<b>Intelcav</b> www.intelcav.com	<b>MF -C -C (MG, CM, SM, CL, OPT, FP, H)</b> Rua Hungria 514, 50 andar Jardim Paulistano, SP 01455-000 São Paulo, Brazil	Tel. 55/11/2169/0750	Fax 55/11/2169/0769
<b>Interflex Datensysteme GmbH &amp; Co. KG</b> www.interflex.de	<b>MF, SI -B, C -T (RF, FP), SW</b> P.O. Box 81 03 60, 70520 Stuttgart, Germany	Tel. 49/711/13220	Fax 49/711/1322/111
<b>International Bar Code</b> www.interbar.com	<b>MF -C, BC -C (CL), R (RF), S (FX, I)</b> 160 Oak Street, 06033 Glastonbury, CT, Usa	Tel. 1/860/6599660	Fax 1/860/6573860
<b>International Biometric Group</b> www.biometricgroup.com	<b>SI -B, C -SW</b> One Battery Park Plaza, 10004 New York, NY, Usa	Tel. 1/212/8099491	Fax 1/212/8096197

## LEGENDA

ROLE IN THE VALUE CHAIN	PRODUCT CATEGORIES	PRODUCT SPECIFICATIONS	
D = Distributor	A = Antenna	BT = Batch	IF = Iris Feature
MF = Manufacturer	C = Cards	BC = Barcode	L = Labels
SH = Software House	EP = Electronic Personalization	CL = Contactless	LF = Low Frequency
SI = System Integrator	GP = Graphic Personalization	CM = Contact Memory	MG = Magnetic
VAR = Value Added Reseller	IC = Integrated Circuits	CMA = Card Materials	MK = Marking
	M = Media	CP = Compact	MW = Microwave
<b>TECHNOLOGIES</b>	MC = Machinery	DNA = DNA	OCR = Optical Char. Recognition
B = Biometrics	MV = Machine Vision	EAS = Electronic Art. Surveillance	OPT = Optical
BC = Barcode	P = Printers	FF = Facial Feature	POS = Point of Sale
C = Cards	R = Readers	FP = Fingerprint	RF = Radio Frequency
DC = Data Collection	S = Scanners	FX = Fixed	SL = Smart Labels
NFC = Near Field Comm.	SW = Software	H = Holograms	SM = Smart
RFID = Radio Frequency Identification Device	T = Terminals	HF = High Frequency	TTR = Thermal Transfer Ribbon
RTLS = Real Time Loc. System	TAG = Tags	HG = Hand Geometry	UHF = Ultra High Frequency
	VR = Voice Recognition	HH = Handheld	VF = Verifier
		I = Industrial	VT = Vehicle Terminal

<b>International Security Tech.</b> <a href="http://www.ist-china.com">www.ist-china.com</a>	<b>MF -C, BC, B -C (MG, CM, SM, CL, OPT, FP)</b> No. 99 Meicun Road, 518049 Shenzhen , Guangdong , P.R.China	Tel. 86/755/83124964    Fax 86/755/83315467
<b>Iris Corporation Berhad</b> <a href="http://www.iris.com.my">www.iris.com.my</a>	<b>MF, SI, SH, D, VAR -C, B -C (CM, SM, CL, CMA), B (FF), P (CP), R (HH, FX, RF, I), T (IF, HH, FX, I, FP, L, MK, OCR), SW, EP</b> Iris Smart Technology Complex, Technology Park Malaysia, 57000 Bukit Jalil, Kuala Lumpur, Malaysia	Tel. 603/89960788    Fax 603/89960441
<b>Idemia</b> <a href="http://www.idemia.com">www.idemia.com</a>	<b>MF, SI -C, B -C (CM, SM, CL, FP), R (RF), T (RF, FP, IF, FF), SW, EP, GP</b> Boulevard Lénine, BP 428 76805, Saint-Etienne-du-Rouvray, France	Tel. 33/2/3564/5346
<b>Ixla srl</b> <a href="http://www.ixla.it">www.ixla.it</a>	<b>MF -C -MC, SW, GP, EP</b> Via Ponte Chiusella 28, 10090 Romano Canavese, Italy	Tel. 39/0125/719286    Fax 39/0125/718455
	XLA has been the first vendor to release a real desktop laser system for e-ID, compact and effective. The product range has grown, adding the new IDC to the laser-only field proven ID5, an innovative Laser Color Personalization printer allows the combination of a variety of security features against alteration and reproduction. Thanks to the uncompromised dedication to product quality, constant innovation and competence, IXLA is still the leading brand in desktop solutions for laser personalization of passports and cards, reached the mark of more than 3,000 delivered units.	
<b>Keyware</b> <a href="http://www.keyware.com">www.keyware.com</a>	<b>MF, SH, SI -C -C (MG, CM, SM, CL, FP), T (RF, POS), SW, EP</b> Ikaros Business Park, Ikaroslaan 24, 1930 Zaventem, Belgium	Tel. 32/2/3462523    Fax 32/2/3471688
<b>Kronos Systems Ltd</b> <a href="http://www.kronos.com/uk">www.kronos.com/uk</a>	<b>MF -B, C -T (FP)</b> Kronos House, Carey Road, RG40 2NP Wokingham, UK	Tel. 44/118/9789784    Fax 44/118/9782214
<b>Kugler Womako</b> <a href="http://www.kugler-womako.com">www.kugler-womako.com</a>	<b>MF - C - MC, C (CMA)</b> Schlosserstraße 15, 72622 Nürtingen, Germany	Tel. +49 7022 70020    Fax +49 7022 33444
<b>Labau Technology Corporation</b> <a href="http://www.labau.com.tw">www.labau.com.tw</a>	<b>MF -BC, C -R (HH, FX), P (CP, TTR), S (FX), T (POS)</b> 3F-3, No 125, Ln 235, Bau Chiau Road, 231 Taipei, Taiwan	Tel. 886/2/89191371    Fax 886/2/89191771
<b>Linxens</b> <a href="http://www.linxens.com">www.linxens.com</a>	<b>MF - C, RFID, NFC - TAG (RF &lt;LF, HF, UHF&gt;), A, M(SL), C (CL)</b> 6 Rue Marius AUFAN, 92300 Levallois Perret – France	Tel. +33 1 41343450    Fax +331 47576492
	Linxens is a world-class provider of component-based solutions for the security & identity market. We design and manufacture Microconnectors and RFID Antennas and Inlays. With 8 production facilities in Asia, Europe and North America, 4 R&D Centers, and over 3000 employees, Linxens makes its large-scale production capacity available to its customers, and delivers guaranteed product and technical reliability. Linxens technology gives users the best connection possible. Linxens crafting the future of connections.	
<b>Logiccode PTE Ltd</b> <a href="http://www.logiccode.com.sg">www.logiccode.com.sg</a>	<b>D -BC, C, RFID -S (HH, FX), R (RF), P, T (RF, BT, BC)</b> 10 Ubi Crescent #05-28, 408564 Ubi Techpark (Lobby B), Singapore	Tel. 65/64588/337    Fax 65/64588/553
<b>Magna Carta Chipcard Solutions</b> <a href="http://www.magna-carta.com">www.magna-carta.com</a>	<b>MF -C -C (MG, CM, SM, CL), T, SW</b> Naritaweg 126, 1043 CA Amsterdam, Holland	Tel. 31/20/582/20/50    Fax 31/20/582/20/51
<b>Magtek</b> <a href="http://www.magtek.com">www.magtek.com</a>	<b>MF -C -S (POS), T (POS)</b> 20725 South Annalee Avenue, 90746 Carson, CA, Usa	Tel. 1/800/421/5208



**Masktech GmbH**

www.masktech.de  
sales@masktech.de

**SH -C, B, RFID -IC, SW**

Nordostpark 45, 90411 Nuremberg, Germany

Tel. 49/911/955149-0 Fax 49/911/955149-7

MaskTech is the leading independent provider of high security multi-application operating systems (OS) and customized Flash/ROM masked products for electronic travel documents and ID applications. Our embedded solution (MTCOS) protects e-documents in more than 65 countries worldwide. MTCOS is a fully open standard (ISO/IEC) compliant, Common Criteria EAL5+ certified operating system which includes a large variety of ID applications e.g. ICAO/BSI ePassport, national e-ID, -sign, -health, -driving license and PKI. It supports the RFID, dual interface or contact interface.

**Matica System S.r.l.**

www.maticasystem.com

**MF -C -C (MG, CM, SM, CL, FP), M (TTR, I), P (I, TTR), EP, GP, MC, MV**

Via G. Rossa 4/6, 20037 Paderno Dugnano (MI), Italy

Tel. 39/02/92272501 Fax 39/02/91084372

**Maurer Electronics GmbH**

www.maurer-electronics.de

**MF -C -MC**

Hanauer Strasse 1, 80992 Munich, Germany

Tel. 49/89/139268630 Fax 49/89/1392680

**Melzer Maschinenbau GmbH**

www.melzergmbh.com

sales@melzergmbh.com

**MF -C, RFID -MC, C (MG, CM, SM, CL), M (L, SL), TAG (MK, RF<LF, HF, UHF, MW>)**

Ruhrstr 51-55, 58332 Schwelm, Germany

Tel. 49/2336/9292/80 Fax 49/2336/9292/85

MELZER is internationally well-known as the leading production equipment supplier for trendsetting ID documents, Smart Cards, DIF Cards, RFID inlays and e-Covers for passports. Customized solutions in combination with the unique modular inline production processes ensure highest productivity, flexibility and security at a maximum yield and lowest per unit costs. Numerous governmental institutions rely on reliable solutions created by MELZER. The company's product portfolio also includes advanced RFID converting equipment for the production of smart labels/tickets and luggage tags.

**Microsoft Corporation**

www.microsoft.com

**SH -C, B, RFID, DC -SW**

One Microsoft Way, 98052-6399 Redmond, WA, Usa

Tel. 1/800/642/7676 Fax 1/425/936/7329

**Modi**

www.modi-gmbh.de

**MF - B, S, SW, FF, EP, R**

An der Hoehe 20, 51674 Wiehl, Germany

Tel. 49/2261/91 52-0

**Mühlbauer Group**

www.muehlbauer.de

**MF, SH, SI -RFID, C -C, M (SL), TAG (MK, RF), P (CP, I, TTR), T (FX, RF, I, BT, FP, IF, FF, VF), SW, EP, GP, MC, MV**

Josef-Muehlbauer-Platz 1, 93426 Roding, Germany

Tel. 49/9461/9520 Fax 49/9461/9521101

**Multicard AG**

www.multicard.com

**MF -C -C (MG, CM, SM, CL), T (FP, FF, VF)**

Widenholzstrasse 1, 8304 Wallisellen, Switzerland

Tel. 41/44/8779000 Fax 41/44/8310003

**Nadra**

www.nadra.gov.pk

**VAR, SI, SH -C, B, RFID, DC -SW, EP, GP**

State Bank of Pakistan Building, Shahrah-e-Jamhuriat, G-5/2, 44000 Islamabad, Pakistan

Tel. 92/51/9205568 Fax 92/51/9202939

**LEGENDA****ROLE IN THE VALUE CHAIN**

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VAR = Value Added Reseller

**TECHNOLOGIES**

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**PRODUCT CATEGORIES**

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R = Readers  
S = Scanners  
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**PRODUCT SPECIFICATIONS**

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CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
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EAS = Electronic Art. Surveillance  
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OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal

<b>Nagra ID</b> www.nagraid.com	<b>MF -C, RFID -C (MG, CM, SM, CL), M (L, TTR, H, I), TAG (RF&lt;LF, HF, UHF&gt;), EP, GP</b> Crêt du Locle 10, 2301La Chaux-de-Fonds, Switzerland	Tel. 41/32/9240404	Fax 41/32/9240400
<b>NEC Solutions (America) Inc</b> www.necam.com/ids/law	<b>SI -B -T (FP), SW</b> 10850 Gold Center Drive, Suite 200, 95670 Rancho Cordova, CA, Usa	Tel. 1/800/777/2347	Fax 1/916/4637041
<b>Nexus</b> www.vps.de	<b>SH, SI -C, B, NFC, RFID -SW, EP, GP</b> Carl-Zeiss-Strasse 2, 76275 Ettlingen, Germany	Tel. 49/7243/54880	Fax 49/7243/548811
<b>Oasys Technologies</b> www.oasys.uk.com	<b>MF, SI -C -C (MG, SM, CL), SW, EP</b> 3, Stratton Business Park, Biggleswade, Beds. SG18 8UB, UK	Tel. 44/1767/600232	Fax 44/1767/601532
<b>Omnia Technologies</b> www.omniatags.com	<b>MF -RFID, C -TAG (RF&lt;LF, HF, UHF&gt;)</b> Plot No. 68, Sector - 5, IMT Manesar, 122050 Gurgaon, Haryana, India	Tel. 91/124/4366411	Fax 91/1244366410
<b>Orell Füssli</b> www ofs.ch	<b>MF -C -C (CL,CM), EP</b> Dietzingerstrasse 3, CH 8036 Zurich, Switzerland	Tel. 41/44/466/7711	Fax 41/44/466/7901
<b>Otto Künnecke GmbH</b> www.kuennecke.com	<b>MF, SI -C -C (MG, SM), GP, EP, MC</b> Zeppelinstrasse 10, 37603 Holzminde, Niedersachsen, Germany	Tel. 49/5531/9300545	Fax 49/5531/9300903
<b>PAV Card GmbH</b> www.pavcard.de	<b>MF -C, RFID -C (MG, CM, SM, CL), EP, GP, TAG (RF&lt;HF&gt;), M</b> Hamburger Strasse 6, 22952 Luetjensee, Germany	Tel. 49/4154/7990	Fax 49/4154/799151
<b>Prooftag</b> www.prooftag.com	<b>MF -C -C (OPT), M (L), TAG (MK)</b> 350, Av d'Italie, 82000 Montauban, France	Tel. 33/5/63211050	Fax 33/5/63211058
<b>ruhlamat GmbH</b> www.ruhlamat.com	<b>MF - C, RFID - A, C(CL), EP (MK), GP, MC</b> Sonnenacker 2, 99819 Marksuhl, Germany	Tel. 49/369259290	Fax 49/36925929111
	ruhlamat is an innovative engineering and machine building company with its headquarters located in Germany. Activities are focused on smart card and passport processing technology, e.g. passport production and personalization, card production and personalization, module preparation as well as Inlay/RFID solutions and special machinery. ruhlamat branches and representations throughout the world create an ideal basis for a professional and area-spanning service network.		
<b>Safe ID Solutions AG</b> www.safe-id.de	<b>MF, SI -C, RFID -C (CL), GP, EP, SW, MC</b> Ottobrunner Str. 43, 82008 Unterhaching, Germany	Tel. 49/89/4521260	Fax 49/89/452126126
<b>Schreiner LogiData</b> www.schreiner-logidata.com	<b>MF -C, RFID, BC -C (SM, CL), M(L, SL, I), TAG (RF&lt;HF, UHF&gt;)</b> Bruckmannring 22, 85764 Oberschleissheim, Germany	Tel. 49/89/31584/4140	Fax 49/89/31584/4109
<b>SCM Microsystems (Identiv)</b> www.scmmicro.com	<b>MF -RFID, NFC -R (HH, FX, RF), T (HH, FX, RF)</b> Oskar-Messter-Strasse 13, 85737 Ismaning, Germany	Tel. 49/89/9595/5000	Fax 49/89/9595/5555
<b>SecureTech Consultancy</b> www.securetech-consultancy.com	<b>SH, SI, VAR - C (CL, CM, SM), EP, T (FF, OCR, TTR)</b> 827, Street No. 85, I-8/4, Islamabad-44000, Pakistan	Tel. +92 51 111 111 782	Fax +92 51 4436480
<b>Selex Elsag</b> www.selexelsag.com	<b>MF, SH, SI -C, B, RFID, DC -C (CM, SM, CL), TAG (RF&lt;HF, UHF&gt;), P (I), R (HH, FX, RF, I), S (POS, I, OCR), T (FP, FF), SW, GP, EP</b> Via Puccini, 2, 16154 Genova, Italy	Tel. 39/010/65821	Fax 39/010/6512898

<b>SICPA Security Solutions</b> www.sicpa.com	<b>MF, SH - C - P, SW, TAG (L, MK)</b> Av de Florissant 41, 1008 Prilly – Switzerland	Tel. +41 21 627 61 55	Fax +41 21 627 57 27
	At the core of SICPA's security expertise are high-performance security inks that protect the majority of the world's banknotes, security documents and value documents from counterfeiting and fraud. SICPA's Government Security Solutions Division enables Governments to protect tax revenues and deliver associated policy objectives by providing unique and secure authentication and traceability solutions. SICPATRACE® combines material based security with state-of-the-art information technology which enables our partner Governments to secure revenue and protect consumers. SICPA is a pioneer in this field and has successfully implemented and operated nationwide track and trace solutions for Governments worldwide.		
<b>Skidata AG</b> www.skidata.com	<b>MF, D, SI - C, RFID - C (SM, CL, OPT, MG), M (L, TTR), TAG (RF &lt;LF, HF&gt;), P (CP, TTR), R (HH, FX, RF), S (HH, FX, POS), SW, T (HH, FX, BC, POS, VT)</b> Unterbergstrasse 40, 5083 Grödig - Salzburg, Austria	Tel. 43/6246/8880	Fax 43/6246/8887
<b>Smartware</b> www.smartware.fr	<b>MF - C, RFID - EP, GP, R (RF)</b> 11, Avenue des Andes, Le Carthagène, Z.A. de Courtaboeuf, 91940 Les Ulis, France	Tel. 33/1/6486/2525	Fax 33/1/6486/2526
<b>SPS - Smart Packaging Solutions</b> www.s-p-s.com	<b>MF - C - A, C (CMA, CL, HF), IC, DATAPAGE</b> 85 avenue de la Plaine, ZI de Rousset-Peynier, 13790 Rousset – France	Tel. +33 4 42 53 88 30	Fax +33 4 42 53 84 48
<b>Spartanics</b> www.spartanics.com	<b>MF - C, RFID - C (MG, CM, SM), M (L), P (I)</b> 3605 Edison Place, 60008 Rolling Meadows, IL, Usa	Tel. 1/847/3945700	Fax 1/847/3940409
<b>STMicroelectronics</b> www.st.com	<b>MF - C, RFID, B - C (CM, SM, CL, FP), M (SL), TAG (RF &lt;HF, UHF&gt;), IC</b> 39, Chemin du Champ des Filles CP 21, 1228 Plan-Les-Ouates, Geneva 15, Switzerland	Tel. 41/22/9292929	Fax 41/22/929/2900
<b>STMicroelectronics</b> www.st.com	<b>MF - C, RFID, B - C (CM, SM, CL, FP), M (SL), TAG (RF &lt;HF, UHF&gt;), IC</b> 39, Chemin du Champ des Filles CP 21, 1228 Plan-Les-Ouates, Geneva 15, Switzerland	Tel. 41/22/9292929	Fax 41/22/929/2900
<b>Thales</b> www.thalesgroup.com	<b>MF, SI - B, NFC - IC, A, T (FX, FP, IF, FF), SW, EP</b> 20-22 rue Grange Dame Rose, 78141 Velizy, France	Tel. 33/1/73320000	
<b>Veridos</b> www.veridos.com	<b>MF, SI, D, SH - C, B - C (SM, CL, FP), P, R (HH, FX), T (FP, FP, FF, VF), SW, EP, GP</b> Oranienstrasse 91, 10969 Berlin, Germany	Tel. 49/30/2589984/0	Fax 49/30/2589984/39
<b>Vision-Box</b> www.vision-box.com	<b>MF - C, B - C, R (FX, FF, FP, VF), T</b> Rua Casal do Canas n.2, Zona Industrial de Alfragide, 2790-204 Carnaxide, Portugal	Tel. 351/21/154/3900	Fax 351/21/154/3901
<b>Vlatacom d.o.o.</b> www.vlatacom.com	<b>MF, SI, SH - C, B, DC - R (HH, FX, RF &lt;HF&gt;), S (OCR), T (HH, BC, FP, FF, RF, VF), SW, EP, GP</b> 5 Milutina Milankovica, 11070 Belgrade, Serbia	Tel. 381/11/377/1100	Fax 381/11/377/1199

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