

ID WORLD

THE PLAYERS OF THE AUTO ID INDUSTRY

CARDS

2024 BUYER'S GUIDE

Rinas Gerätetechnik

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



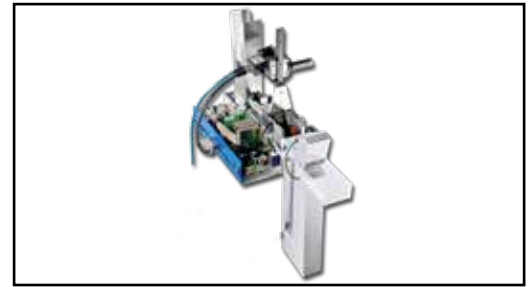
Since 1984, Rinas has been a leading innovator and driving influence behind sophisticated magnetic stripe technologies within the card manufacturing and system integration marketplaces. Rinas maintains a clear and highly-focused corporate engineering strategy that concentrates on developing and manufacturing 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

Delivering secure and high added value components for card and document manufacturers globally

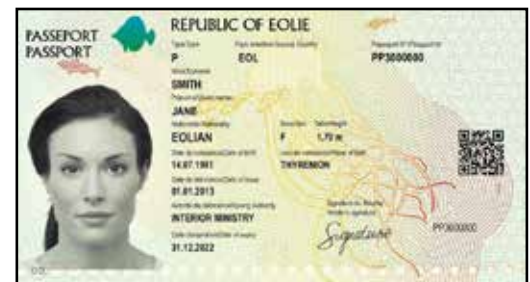


SPS has delivered several million epassport inlays and e covers based on its unique ebooster technology to Asian, African, and European countries. The Teslin based inlay uses an inductive coupling technology, where there is no physical connection between the antenna and the chip's module enhancing the 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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13790 Rousset – France

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

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

Industriestrasse 25-27, 64569 Nauheim, Germany

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



For more than six decades, DILETTA has been developing and manufacturing identity products and security systems for governments and other national institutions. DILETTA offers complete systems for centralised and decentralised personalisation of high-security travel documents supporting all security criteria, contactless chip technology, fluorescent UV inks and machine-readable features. With over 45,000 installations in more than 170 countries, we have built up a wealth of expertise and 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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Fingerprint Cards AB www.fingerprints.com	MF -B -IC, T (FP), C (FP), SW P O Box 2412 (Kungssportsplatsen 2), 403 16 Gothenburg, Sweden	Tel. 46/31/607820	Fax 46/31/137385
FobaLaserMarking + Engraving(Alltech) www.fobalaser.com	MF -C, DC -MC, TAG (MK), MV An der Trave 27-31, 23923 Selmsdorf, Germany	Tel. 49/38823/550	Fax 49/38823/55222
Fortress GB Limited www.fortressgb.com	SI -RFID, C -C (SM, CL, FP), TAG (RF<HF>), T (HH, FX, RF, HG, POS), SW South Block, Tavistock Square, Tavistock House, WC1H 9LG London, UK	Tel. 44/20/7874/7595	Fax 44/7874/7599
Gemalto (Thales company) www.gemalto.com/govt	MF -C -C (CM, SM, CL), EP, GP, T (HH, POS), R (FX, HH), SW 6, rue de la Verrerie, 92127 Meudon Cedex, France	Tel. 33/1/5501/50 00	
GET Group www.getgroup.com	SI - C - P (CL, CM, VF) 230 Third Avenue, Waltham, MA 02451 – USA	Tel. +1 781 890-6700	Fax +1 781 890-6320
Ghirlanda SpA www.ghirlanda.it	MF, SI -C -C (MG, SM), SW, GP, EP via Galileo Ferraris, 80/90, 20010 Marcallo con Casone, MI, Italy	Tel. 39/02/972331	Fax 39/02/9761657
Giesecke & Devrient GmbH www.gi-de.com	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 Prinzregentenstrasse 159, 81677 Munich, Germany	Tel. 49/89/41190	Fax 49/89/41191535
HID Global www.hidglobal.com	MF -C, RFID -C (MG, CM, SM, CL, OPT), M (TTR, H, I), TAG (RF<LF, HF>), IC, P (CP, I, TTR, POS). R (HH, FX, RF, I), SW, EP 15370 Barranca Pkwy, 92618 Irvine, CA, Usa	Tel. 1/949/732/2000	Fax 1/949/732/2120
Hirsch Electronics Corp. www.hirschelectronics.com	MF -B, C, RFID -C (MG, CM, SM, CL, OPT, FP), TAG (RF<LF, HF, MW>), R (HH, FX, RF, I), T (HH, FX, RF, I, BC, FP, IF, VT, VF), SW, EP, GP 1900-B Carnegie Ave., 92705 Santa Ana, CA, Usa	Tel. 1/949/250/8888	Fax 1/949/250/7372
HJP Consulting www.hjp-consulting.com	SH, SI -C, RFID -SW Hauptstraße 35, 33178 Borcheln, Germany	Tel. 49/5251/417760	Fax 49/5251/4177666
Honeywell Access Systems www.honeywellaccess.com	MF, SH -RFID, B -C (MG, CM, SM, CL, FP), M (TTR, H), P (TTR), R (HH, RF), S (HH) 2700 Blankenbaker Pkwy, Suite 150, 40291 Louisville, KY, Usa	Tel. 1/800/6753364	Fax 1/502/2975770
IAI Industrial Systems www.iai.nl	MF - C - EP De Run 5406, 5504 DE Veldhoven – The Netherlands	Tel. 31/40/2542445	Fax 31/40/2545635
Identitas www.identitas.it	D -C, B -C (CM, SM, OPT), T (FP), GP, EP Via Tiburtina 912, 00156 Rome, Italy	Tel. 39/06/4072199	Fax 39/06/4086199
Identive Group www.identive-transponders.com	MF -RFID -TAG (RF<HF, UHF>), M (SL), D – RFID, NFC – IC, TAG (RF<LF, HF>) Mu_hlweg 2c, 82054 Sauerlach, Germany	Tel. 49/8104/6495100	Fax 49/8104/6495110
Idesco Oy www.idesco.fi	MF -RFID, C -C (SM, CL), TAG (RF<LF, HF>), R (RF), T (RF) Teknologiantie 9, 90570 Oulu, Finland	Tel. 358/20/74384175	Fax 358/20/7434176
IDTeck www.idteck.com	MF, D -C, B, RFID -C (CM, SM, CL), TAG (RF<LF, HF, UHF>), T (RF, FP, FF, VF), SW 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangsuh-Gu, 157-030 Seoul, Korea	Tel. 82/2/26590055	Fax 82/2/6590086
iDTronic www.idtronic-group.com	MF -C, RFID -C (CL), M (SL), TAG (RF<LF, HF, UHF>), R (HH, FX, RF, I), T (RF) Donnersbergweg 1, 67059 Ludwigshafen am Rhein, Germany	Tel. 49/621/66900940	Fax 49/621/66900949

Imprimerie Nationale Groupe www.imprimerienationale.fr	MF, SI, - C, B - C, EP, R, SW 104 avenue du Président Kennedy, 75016 Paris	Tel. 33 01 4058300	Fax 33 01 40583085
ImageWare Systems, Inc. www.iwsinc.com	MF, SH -B, C -T (FP, HG, IF, FF), VR, SW 10883 Thornmint Rd , 92127 San Diego, CA, Usa	Tel. 1/858/673/8600	Fax 1/858/673/1770
Industrial Innovation Group www.industrialinnovationgroup.com	MF, SH - C, B, NFC, RFID - C(MG, CM, SM, CL, FP), M(L, H), TAG(RF), P(I), SW, EP, GP, MC 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
Infineon Technologies AG www.infineon.com	MF -RFID, C -IC 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.		
Ingenico www.ingenico.com	SH, SI -C, B -T (HH, FX, RF, CL, BC, FP, POS), SW, VT 192 avenue Charles de Gaulle, 92200 Neuilly, France	Tel. 33/1/46258200	Fax 33/1/47725695
Innova Card www.innova-card.com	MF -C -IC, SW ZI Athélia IV - Le Forum, Bât. A, Quartier Roumagoua, 13600 La Ciotat , France	Tel. 33/4/42981480	Fax 33/4/42083319
Intelcav www.intelcav.com	MF -C -C (MG, CM, SM, CL, OPT, FP, H) Rua Hungria 514, 50 andar Jardim Paulistano, SP 01455-000 São Paulo, Brazil	Tel. 55/11/2169/0750	Fax 55/11/2169/0769
Interflex Datensysteme GmbH & Co. KG www.interflex.de	MF, SI -B, C -T (RF, FP), SW P.O. Box 81 03 60, 70520 Stuttgart, Germany	Tel. 49/711/13220	Fax 49/711/1322/111
International Bar Code www.interbar.com	MF -C, BC -C (CL), R (RF), S (FX, I) 160 Oak Street, 06033 Glastonbury, CT, Usa	Tel. 1/860/6599660	Fax 1/860/6573860
International Biometric Group www.biometricgroup.com	SI -B, C -SW One Battery Park Plaza, 10004 New York, NY, Usa	Tel. 1/212/8099491	Fax 1/212/8096197

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International Security Tech. www.ist-china.com	MF -C, BC, B -C (MG, CM, SM, CL, OPT, FP) No. 99 Meicun Road, 518049 Shenzhen , Guangdong , P.R.China	Tel. 86/755/83124964 Fax 86/755/83315467
Iris Corporation Berhad www.iris.com.my	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 Iris Smart Technology Complex, Technology Park Malaysia, 57000 Bukit Jalil, Kuala Lumpur, Malaysia	Tel. 603/89960788 Fax 603/89960441
Idemia www.idemia.com	MF, SI -C, B -C (CM, SM, CL, FP), R (RF), T (RF, FP, IF, FF), SW, EP, GP Boulevard Lénine, BP 428 76805, Saint-Etienne-du-Rouvray, France	Tel. 33/2/3564/5346
Ixla srl www.ixla.it	MF -C -MC, SW, GP, EP 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.	
Keyware www.keyware.com	MF, SH, SI -C -C (MG, CM, SM, CL, FP), T (RF, POS), SW, EP Ikaros Business Park, Ikaroslaan 24, 1930 Zaventem, Belgium	Tel. 32/2/3462523 Fax 32/2/3471688
Kronos Systems Ltd www.kronos.com/uk	MF -B, C -T (FP) Kronos House, Carey Road, RG40 2NP Wokingham, UK	Tel. 44/118/9789784 Fax 44/118/9782214
Kugler Womako www.kugler-womako.com	MF - C - MC, C (CMA) Schlosserstraße 15, 72622 Nürtingen, Germany	Tel. +49 7022 70020 Fax +49 7022 33444
Labau Technology Corporation www.labau.com.tw	MF -BC, C -R (HH, FX), P (CP, TTR), S (FX), T (POS) 3F-3, No 125, Ln 235, Bau Chiau Road, 231 Taipei, Taiwan	Tel. 886/2/89191371 Fax 886/2/89191771
Linxens www.linxens.com	MF - C, RFID, NFC - TAG (RF <LF, HF, UHF>), A, M(SL), C (CL) 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.	
Logicode PTE Ltd www.logicode.com.sg	D -BC, C, RFID -S (HH, FX), R (RF), P, T (RF, BT, BC) 10 Ubi Crescent #05-28, 408564 Ubi Techpark (Lobby B), Singapore	Tel. 65/64588/337 Fax 65/64588/553
Magna Carta Chipcard Solutions www.magna-carta.com	MF -C -C (MG, CM, SM, CL), T, SW Naritaweg 126, 1043 CAAMsterdam, Holland	Tel. 31/20/582/20/50 Fax 31/20/582/20/51
Magtek www.magtek.com	MF -C -S (POS), T (POS) 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**

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

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

SICPA Security Solutions www.sicpa.com	MF, SH - C - P, SW, TAG (L, MK) 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.		
Skidata AG www.skidata.com	MF, D, SI - C, RFID - C (SM, CL, OPT, MG), M (L, TTR), TAG (RF <LF, HF>), P (CP, TTR), R (HH, FX, RF), S (HH, FX, POS), SW, T (HH, FX, BC, POS, VT) Unterbergstrasse 40, 5083 Grödig - Salzburg, Austria	Tel. 43/6246/8880	Fax 43/6246/8887
Smartware www.smartware.fr	MF -C, RFID -EP, GP, R (RF) 11, Avenue des Andes, Le Carthagène, Z.A. de Courtaboeuf, 91940 Les Ulis, France	Tel. 33/1/6486/2525	Fax 33/1/6486/2526
SPS - Smart Packaging Solutions www.s-p-s.com	MF - C - A, C (CMA, CL, HF), IC, DATAPAGE 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
Spartanics www.spartanics.com	MF -C, RFID -C (MG, CM, SM), M (L), P (I) 3605 Edison Place, 60008 Rolling Meadows, IL, Usa	Tel. 1/847/3945700	Fax 1/847/3940409
STMicroelectronics www.st.com	MF -C, RFID, B -C (CM, SM, CL, FP), M (SL), TAG (RF <HF, UHF>), IC 39, Chemin du Champ des Filles CP 21, 1228 Plan-Les-Ouates, Geneva 15, Switzerland	Tel. 41/22/9292929	Fax 41/22/929/2900
STMicroelectronics www.st.com	MF -C, RFID, B -C (CM, SM, CL, FP), M (SL), TAG (RF <HF, UHF>), IC 39, Chemin du Champ des Filles CP 21, 1228 Plan-Les-Ouates, Geneva 15, Switzerland	Tel. 41/22/9292929	Fax 41/22/929/2900
Thales www.thalesgroup.com	MF, SI -B, NFC -IC, A, T(FX, FP, IF, FF), SW, EP 20-22 rue Grange Dame Rose, 78141 Velizy, France	Tel. 33/1/73320000	
Veridos www.veridos.com	MF, SI, D, SH -C, B -C (SM, CL, FP), P, R (HH, FX), T (FP, FP, FF, VF), SW, EP, GP Oranienstrasse 91, 10969 Berlin, Germany	Tel. 49/30/2589984/0	Fax 49/30/2589984/39
Vision-Box www.vision-box.com	MF -C, B -C, R (FX, FF, FP, VF), T Rua Casal do Canas n.2, Zona Industrial de Alfragide, 2790-204 Carnaxide, Portugal	Tel. 351/21/154/3900	Fax 351/21/154/3901
Vlatacom d.o.o. www.vlatacom.com	MF, SI, SH -C, B, DC -R(HH, FX, RF <HF>), S(OCR), T (HH, BC, FP, FF, RF, VF), SW, EP, GP 5 Milutina Milankovica, 11070 Belgrade, Serbia	Tel. 381/11/377/1100	Fax 381/11/377/1199

LEGENDA

ROLE IN THE VALUE CHAIN D = Distributor MF = Manufacturer SH = Software House SI = System Integrator VAR = Value Added Reseller	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	TECHNOLOGIES B = Biometrics BC = Barcode C = Cards DC = Data Collection NFC = Near Field Comm. RFID = Radio Frequency Identification Device RTLS = Real Time Loc. System	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
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