Our industry has very longstanding traditions in Latvia – the legendary VEF Minox miniature camera, invented at the VEF factory in 1937, is known all over the world; telephones or radio-sets made in Latvia are still used and remembered in former USSR countries. This success was achieved through the efforts of Latvia's highly qualified specialists.

Rich traditions and experience in the production of electrical engineering and electronics equipment, the dynamism of the companies involved, and rapid economic development allows us to be optimistic that the industry's successful development in Latvia will continue in the future.

Our vision for Latvia is becoming a centre where hi-tech companies from throughout the region can meet, co-operate and develop their businesses. At this time, Riga already presents a convincing case that it is becoming a significant economic centre not only in the Baltic States, but in the whole Baltic Sea region. A significant factor is its ideal geographic situation between two very important markets: the European Union and Russia.

Having recognised Latvia's obvious advantages, more and more western entrepreneurs have chosen Riga and Latvia as their base for further expansion towards the eastern market, but eastern partners seek access to wealthy and demanding European consumers. Products manufactured by Latvia-based companies are already being exported everywhere from China to USA.

We understand that the complete realisation of this vision depends only on ourselves and our ability to quickly and efficiently recognise possible obstacles to development and transform them into opportunities.

Therefore the entrepreneurs in our industry have joined forces in the Latvian Electrical Engineering and Electronics Industry Association (LEtERA), whose aim is to continue to accelerate the growth of the industry. We regularly co-operate with leading Latvian research and education institutions and appropriate state bodies, in order to continue searching for new solutions to improve the competitiveness and effectiveness of our companies, and so are able to create products with high added value.

LEtERA was formed to seek solutions to problems common to several sub-sectors of the ITTE industry, and to support co-operation with other Latvian industry associations and their European counterpart organisations.

If these objectives are of interest to you, you are welcome to join us, because together we will find ways to be heard, listened to and respected.

Vitālijs Aišpurs
President, Latvian Electrical Engineering and
Electronics Industry Association

The economic growth of Latvia for the last couple of years has been among the fastest in Europe and the current per capita GDP indicates that a similar or even faster growth can be expected in the following years. A similar situation can be found in the Latvian electrical engineering and electronics sector where the growth rate has been double that of the GDP growth, while the current output of the sector leaves enough space for future growth and development.

Latvian electrical engineering and electronics sector for the past four years has been growing at over twenty percent a year. However the total output of the sector in year 2004 reached 120 million euros which is less than three percent of total output of Latvian manufacturing industry. These numbers indicate that despite the rapid growth the total output of the sector is still modest and further growth can and should be expected.

Having a clear vision of the future development of the sector the Government of Latvia also realizes the challenges that many companies face in the early stage of development, especially the SMEs. For this purpose the Latvian Investment and Development Agency (LIDA) was founded. LIDA offers a wide range of services to help company managers expand their business including trade promotion, investment attraction as well as state support programs in the form of grants.

Introducing the year 2005/2006 Latvian Electrical Engineering and Electronics catalogue I would like to thank enthusiasts, academics, investors, and businessmen who have helped to develop this sector, as well as to wish them success in continuing their business and research. On behalf of LIDA I would like to give surety that we will do our utmost to facilitate the growth and development of the Latvian electrical engineering and electronics sector.

Andris Ozols
Director
Latvian Investment and Development Agency

PAGE NUMBER IN THE CATALOGUE	COMAPANY	28.7 MANUFACTURE OF OTHER FABRICATED METAL PRODUCTS	29.23 MANUFACTURE OF NON-DOMESTIC COOLING AND VENTILATION EQUIPMENT	30.02 MANUFACTURE OF COMPUTERS AND OTHER INFORMATION PROCESSING EQUIPMENT	31 ELECTRICAL MACHINERY & APPARATUS			
					31.1 MANUFACTURE OF ELECTRIC MOTORS, GENERATORS AND TRANSFORMERS	31.2 MANUFACTURE OF ELECTRICITY DISTRIBUTION AND CONTROL APPARATUS	31.3 MANUFACTURE OF INSULATED WIRE AND CABLE	31.6 MANUFACTURE OF ELECTRICAL EQUIPMENT N.E.C.
9	ABB, LTD				■	■		■
21	ADI, LTD							
8	ALFA RPAR, JSC							
5	ALFA PRO, JSC							
5	ALTON, JSC						■	
4	ARCUS ELEKTRONIKA, LTD					■		■
4	BALTIC SCIENTIFIC INSTRUMENTS (BSI), LTD							
21	BTA, JSC							
20	BUSINESS INNOVATION CENTRE OF LATVIAN ELECTRONIC INDUSTRY, LTD (LEBIC)							
9	DAMBIS, JSC	■						■
22	DOZIMETRS, LTD			■				
5	ELLAT, LTD					■		■
22	ERICSSON Latvia, LTD							
22	ESM GRUPA, LTD							
16	FACULTY OF ELECTRONICS AND TELECOMMUNICATIONS, RIGA TECHNICAL UNIVERSITY							
23	FUSH, LTD							
23	GNT Latvia, LTD							
6	HANZAS ELEKTRONIKA, LTD				■	■	■	■
17	INSTITUTE OF ELECTRONICS AND COMPUTER SCIENCE, UNIVERSITY OF LATVIA							
17	INSTITUTE OF INDUSTRIAL ELECTRONICS AND ELECTRICAL ENGINEERING, RIGA TECHNICAL UNIVERSITY							
18	INSTITUTE OF SOLID STATE PHYSICS (ISSP), UNIVERSITY OF LATVIA							
9	JAUDA, JSC							
17	LABORATORY OF ELECTRO DEPOSITION OF METALS, INSTITUTE OF INORGANIC CHEMISTRY, RIGA TECHNICAL UNIVERSITY							
5	LĀSMA, LTD							■
23	LATIMPLUSS, JSC							
14	LATTELEKOM, LTD							
19	LATVIEŠU INTELEKTUĀLĀS SISTĒMAS, JSC (LIS)							
13	LATVIJAS MOBILAIS TELEFONS, LTD (LMT)							
10	LEXEL FABRIKA, LTD							■
8	MIKROELEKTRONIKA, LTD SC							■
24	PEREL LATVIA, LTD							
19	PRUSIA, LTD							
11	RER, JSC				■			■
19	RIGA TECHNICAL COLLEGE							
8	RĪGAS AUTOELEKTROAPARĀTU RŪPNĪCA, JSC (RAR)							
15	SAF TEHNIKA, JSC							
20	SEN TEHS, LTD							
12	SIEMENS, LTD							
6	STE-VIKAN, LTD							■
24	SYSTEM USA, LTD							
11	TELNET, LTD							
7	VEF RADIOTEHNIKA-RRR, JSC							
16	VEF-KTR, LTD	■		■				
11	VENTSPILS VENTILATORS, LTD	■	■					
21	VIDZEME CENTRE OF PROFESSIONAL EDUCATION, (VPIC)							
7	VOLBURG, LTD							

32 MANUFACTURE OF RADIO, TELEVISION AND COMMU-NICATION EQUIPMENT AND APPARATUS			33 MANUFACTURE OF MEDICAL, PRECISION AND OPTICAL INSTRUMENTS, WATCHES AND CLOCKS				72 COMPUTER AND RELATED ACTIVITIES						74 OTHER BUSINESS ACTIVITIES						OTHER
32.1 MANUFACTURE OF ELECTRONIC VALVES AND TUBES & OTHER ELECTRONIC COMPONENTS	32.2 MANUFACTURE OF TELEVISION & RADIO TRANSMITTERS & APPARATUS FOR LINE TELEPHONY AND LINE TELEGRAPHY	32.3 MANUFACTURE OF TELEVISION & RADIO RECEIVERS, SOUND OR VIDEO RECORDING OR REPRODUCING APPARATUS AND ASSOCIATED GOODS	33.2 MANUFACTURE OF INSTRUMENTS & APPLIAN-CES FOR MEASURING, CHECKING, TESTING, NAVIGATING AND OTHER PURPOSES, EXCEPT INDUSTRIAL PROCESS CONTROL EQUIPMENT	33.3 MANUFACTURE OF INDUSTRIAL PROCESS CONTROL EQUIPMENT	33.4 MANUFACTURE OF OPTICAL INSTRUMENTS AND PHOTOGRAPHIC EQUIPMENT	64.2 TELECOMMUNICATIONS	72.1 HARDWARE CONSULTANCY	72.2 SOFTWARE CONSULTANCY AND SUPPLY	72.30 DATA PROCESSING	72.4 DATABASE ACTIVITIES	72.5 MAINTENANCE AND REPAIR OF OFFICE, ACCOUNTING AND COMPUTING MACHINERY	72.6 OTHER COMPUTER RELATED ACTIVITIES	74.4 ADVERTISING	74.8 MISCELLANEOUS BUSINESS ACTIVITIES N.E.C.	CONTRACT MANUFACTURING & ELECTRONIC MANUFACTURING SERVICES (EMS)	51.1 WHOLESALE ON A FEE OR CONTRACT BASIS	EDUCATION	RESEARCH AND DEVELOPMENT	
				■												■			service of industrial equipment
							■						■	■					
■																			70.1, 70.2
			■																34.61
				■															
			■	■															
																			■
														■					
				■											■				
			■				■	■			■			■					
				■															
																			51.86
													■						DE22
																	■	■	
				■												■			
																			51.86
■	■	■	■	■	■														
																	■	■	
																	■	■	
																	■	■	
														■				■	
				■															
								■	■		■	■	■						71.33, 51.84, 51.85, 51.48
						■	■	■	■	■	■	■	■	■					
						■													
■	■		■	■											■			■	
																■			
																		■	
																			27.5
																	■		
	■	■																	
																		■	■
						■		■			■	■				■			
■	■	■																	
											■	■							
■																			
		■																	
	■					■		■	■	■						■		■	
																	■		
		■	■			■									■				■

INDUSTRIAL ELECTRONICS

ARCUS ELEKTRONIKA, LTD

Director: Mr. Vitalijs Aišpurs (Latvian, Russian, English)
Address: Tiraines iela 1, Marupes pag., Rigas raj., LV-2138, Latvia
Phone: +371 7675752
Fax: +371 7675387
E-mail: arcus-elektronika@arcel.lv
Web site: www.arcel.lv

Number of employees: 30
Year of foundation: 1993
Turnover in
2003 – 0.75 MEUR
2004 – 0.64 MEUR
2005 – 0.78 MEUR
Main markets: Eastern Europe

ARCUS ELEKTRONIKA was founded in 1993 as a private limited liability company. It has specialised in the design and production of electronic equipment and software for electrical energy producers and distributors. Over recent years, Arcus Elektronika has developed into a rapidly growing, competitive design company. Its strategic aims are related to continuing increases in the sales of industrial electronic goods and services, mainly through the introduction of new products. The company plans to explore foreign markets more actively in order to expand its distribution network. Arcus Elektronika's industrial electronics and software products have received very positive evaluation by large energy companies such as Latvia's LATVENERGO, Lithuania's LITENERGO, ABB, ALSTOM, SIEMENS, GENERAL ELECTRIC and others. The main directions of design and manufacturing are:

Main product groups
- SCADA systems
- Control centres
- Communication concentrators
- Remote Terminal Units (RTU)
- Protocol converters
- Measuring transducers
- Data transmission equipment
- Power supply
- Voltage regulators
- Disturbances recorders
- Control and measurement equipment
- Test equipment, Digital relays

Core competence
- From idea to application circuit
- R&D
- CAD/CAM
- PCB layout design
- Soldering
- Prototype development and testing
- Software for signal and digital processors
- Software for microcontrollers
- Software in high level languages
- Manufacture and assembly
- Installation, Service

BALTIC SCIENTIFIC INSTRUMENTS (BSI), LTD

President: Mr. Vladimir Gostilo (Russian, English)
Contact person: Mr. Sergey Danengirsh (Latvian, Russian and English)
Address: Ganību dambis 26, a/k 33, Riga, LV-1005, Latvia
Phone: +371 7383947
Fax: +371 7382620
E-mail: bsi@bsi.lv
Web site: www.bsi.lv

Number of employees: 70
Year of foundation: 1994
Turnover in
2003 – 1.1 MEUR
2004 – 1.15 MEUR
2005 – 1.5 MEUR
Main markets: Germany, Finland, Russia, Ukraine

Baltic Scientific Instruments (BSI) was founded under the auspices of the Riga Research and Development Institute for Radio-Isotope Apparatus (RNIIRP) and is its successor in the field of development and production of semiconductor detectors for nuclear radiation and equipment for radiation measurement.
BSI experts have many years of experience in the development and production of scientific equipment and in recent years they have successfully combined business in nuclear electronics with the development of other types of scientific production, participating as a sub-contractor in the joint development and manufacture of various equipment ordered by other companies.
The company seeks co-operation partners in the areas of:
- distribution of BSI products
- contract development and manufacture
- manufacture of components, equipment assembly (semiconductor elements, hybrid micro-assemblies)
- repair and service of equipment manufactured by other companies
- participation in joint development and research projects
- other scientific and engineering co-operation

ELLAT, LTD

Director: Mr. Viktors Vahitovs (Latvian, English, Russian)
Address: Brīvības gatve 214 a, Riga, LV-1039, Latvia
Phone: +371 7316734
Fax: +371 7316733
E-mail: info@ellat.lv
Web site: www.ellat.lv
Number of employees: 15

Year of foundation: 1991
Turnover in
2003 – 0.7 MEUR
2004 – 0.7 MEUR
2005 – 0.64 MEUR
Main market: Latvia

The company designs and manufactures: SCADA and resource management systems (project design, manufacturing and installation) for water supply, water treatment and wastewater treatment, pumping stations, electricity and street-lighting utilities. Company experience: for more than 13 years ELLAT has been a leading manufacturer of automation and control equipment for municipal utilities. The company's street lighting SCADA and control systems have been installed in all of Latvia's major cities; water and wastewater SCADA and control systems operate in 25 Latvian cities; more than 300 LATVENERGO facilities are equipped with energy SCADA and control systems.
The company received an award for successfully fulfilling eight Latvian towns' water system reconstruction projects in 2002.

LĀSMA, LTD

Director: Mr. Janis Kuzmins (Latvian, Russian, English, German)
Contact person: Ms. Inga Liduma (Latvian, English, Russian)
Address: Aizkraukles 21-112, Riga, LV-1006, Latvia
Phone: +371 7545217
Fax: +371 7800606
E-mail: info@lasma.lv

Web site: www.lasma.lv
Number of employees: 12
Year of foundation: 1992
Turnover in
2003 – 0.37 MEUR
2004 – 0.46 MEUR
2005 – 0.46 MEUR
Main market: Latvia

Lasma offers solutions for industry automation:
- contract design and manufacture of equipment and systems

Lasma represents a number of European manufacturers:
- HANS TURCK (Germany)
- TECNOLOGIC (Italy)
- ELKO EP (Czech)
- LAE Electronic (Italy)
- CAL CONTROLS (UK)
- ROTRONIC (Swiss)
- RTR ENERGIA (Spain)
- NIVELCO (HU)

Main product groups are:
- process control, measurement and monitoring
- industry automation
- safety and control of electrical net parameters
- power factor control
- sensors, transmitters, probes, etc.

Lasma also seeks co-operation in the industrial & control sectors.

CONTRACT MANUFACTURING & ELECTRONIC MANUFACTURING SERVICES (EMS)

ALFA PRO, JSC

President: Mr. Pāvils Rožukalns
Address: Maskavas 240, Riga, LV-1063, Latvia
Phone: +371 7251639
Fax: +371 7187102
E-mail: pr@alfapro.apollo.lv
Number of employees: 17

Year of foundation: 1997
Turnover in
2003 – 0.1 MEUR
2004 – 0.1 MEUR
2005 – 0.1 MEUR
Main market: Latvia

Contract manufacturing of printed circuit board (PCB) units for different electronics systems and products.

The company seeks cooperation in similar areas.

ALTON, JSC

Director: Mr. Valērijs Sergejevs (Latvian, Russian)
Contact person: Ms. Nadežda Voronova (Latvian, English, Russian)
Address: Ropažu 140, Riga, LV-1006, Latvia
Phone: +371 7543139
Fax: +371 7552619
E-mail: alton@tl.lv

Number of employees: 100
Year of foundation: 1993
Turnover in
2003 – 1.2 MEUR
2004 – 0.56 MEUR
2005 – 0.53 MEUR
Main markets: Latvia, Sweden

Contract manufacturing of electronic units for cars and telephone exchanges, electronic speed regulators for electric power tools, different types of cable assemblies.

Seeking co-operation on the contract manufacturing of similar articles to customer specification.

HANZAS ELEKTRONIKA, LTD

Managing Director: Mr. Ilmārs Osmanis (Latvian, English, Russian)
Address: Akmeņu 72, Ogre, LV-5001, Latvia
Phone: +371 5049088
Fax: +371 5049087
E-mail: sales@he.lv

Web site: www.he.lv
Number of employees: 105
Year of foundation: 1999
Turnover in
2004 – 2.3 MEUR
2005 – 3.0 MEUR

Hansa Electronics makes Northern European firms more competitive by providing them Nordic-quality manufacturing capabilities at Baltic costs. The Hansa team has technical depth and experience ranging from the UK to Silicon Valley.

Board Level Assembly:

- PCB top and/or bottom SMD assembly on soldering paste or glue (wide variety of components sizes starting with 0201 and up to large fine-pitch and BGA integrated circuits)
- 3 MYDATA assembly lines with 45,000 components per hour including Pb-free line
- EKRA and SMTech Screen printers
- EBSO model SRA 400 Selective soldering
- SEHO 8035 wave soldering for through-hole and chip components
- Manual through-hole or odd shape component soldering and assembly
- Firmware programming

Complete Product Fabrication & Supply Chain Management:

- Building of complete products
- Assembly and SCM of locally-sourced metal parts
- Silicone and conformal coatings
- Wire and cable harnesses
- Electrical and environmental testing, including full-sized X-ray test facility.

STE-VIKAN, LTD

Member of the Board: Aivars Peisenieks (Latvian, Russian, English)
Address: Maza Krasta 83, Riga, LV-1003, Latvia
Phone: +371 7365142
Fax: +371 7241712
E-mail: stevikan@stevikan.lv
Number of employees: 28
Year of foundation: 1993

Turnover* in
2003 – 0.26 MEUR
2004 – 0.33 MEUR
2005 – 0.32 MEUR
Main markets: Europe (Sweden, Germany, France, Great Britain)
* Turnover includes only added value, revenue from contract manufacturing

STE-Vikan provides for its customers small-to middle-scale production of electronical and electromehanical devices in combination with manual work.
The factory is certified in accordance with ISO 9001:2000 and is located in Latvia, in the central part of Riga, close to important roads and the airport.

The majority of production is for the automotive and telecommunication industries.

STE-Vikan

- manufactures various cable harnesses
- manufactures products for the automotive industry: sensors, fuel heaters
- manufactures various products for the telecommunication industry
- cables with terminals, door switches etc.
- works with PCB's – soldering in some elements by wave, cable connectors, contacts (terminals), etc.

STE-Vikan offers

- contract manufacturing/assembly of flexible production quantities
- development of technical solutions (design, know-how etc.) conducted in partnership with customers and suppliers
- sufficient manpower, infrastructure and efficiency to handle orders within customers' tight schedules

Our business network is constantly expanding which helps us to offer our clients the best solutions.
We also see eastern Europe and Russia as areas to develop new business opportunities.

VEF RADIOTEHNIKA-RRR, JSC

President: Mr. Eduards Maļejevs
Contact person: Mrs. Inga Spruga
(Latvian, English, Russian)
Address: Kurzemes pr. 3, Riga, LV-1067, Latvia
Phone: +371 7416635; +371 7418245
Fax: +371 7459201
E-mail: rrr@latnet.lv
Web site: www.rrr.lv

Number of employees: 260
Year of foundation: 1927
Turnover in
2003 – 2.1 MEUR
2004 – 1.3 MEUR
2005 – 1.6 MEUR
Main markets: Germany, Russia, Baltic States, Finland, Italy

The company designs and manufactures consumer speakers for stereo systems, subwoofer systems and home cinema systems; speakers for personal computers, speakers for public announcement systems; TV accessories; electronic units and cables for the EMS sector; printed circuit boards.
The speakers produced by the company meet the demands of HiFi and possess a competitive combination of sound quality and price level. The company keeps a flexible approach to consumer demand and is always prepared to make adjustments to the design and finish of its speakers or to create new ones.
The company's strategic aim is to continue the development of speaker design and production, expanding their range from consumer speakers to speakers for PCs and PA systems as well as into professional speakers. The company also plans to recommence the design and production of amplifiers and other audio products as well as to develop EMS, using up-to-date components and technologies.
The company seeks new partners for all the products mentioned and offers very competitive prices.
In 2003, a prestigious diploma was received when the X-Line series acoustic system for home cinemas was named product of the year.
The X-Line series home cinema set meets all the demands expected of such a product by serious Russian customers, and features an excellent balance between price and quality.

VOLBURG, LTD

Director: Mr. Viktors Kononovs (Latvian, English, Russian, German)
Address: Ganību dambis 24a, Riga, LV-1005, Latvia
Phone: +371 7519780
Fax: +371 7519779
E-mail: volburg@latnet.lv, info@volburg.lv
Web site: www.volburg.lv

Number of employees: 35
Year of foundation: 1996
Turnover in
2003 – 0.25 MEUR
2004 – 0.35 MEUR
2005 – 0.37 MEUR
Main markets: Latvia, Germany

Volburg is one of the leading producers of electronics in Latvia. Its main field is the assembly of electronic modules. The company's products are widely used in IT, security systems, medical equipment and other spheres.

Technologies:

- SMD assembly total to 9600 cph
- Reflow soldering
- Through-hole assembly
- Mixed assembly (SMD and through-hole)
- Wave soldering
- 100% automatic visual check-out of each product
- Programming, adjustment and testing

Looking for co-operation in the Electronic Manufacturing Service area.

CAR ELECTRONICS & MACHINERY

RĪGAS AUTOELEKTROAPARĀTU RŪPNĪCA, JSC (RAR)

President: Mr. Alfrēds Auziņš (Latvian, English, Russian)
Contact person: Mr. Arnolds Zvirgzds (Latvia, English, Russian)
Address: Klijānu 2, Riga, LV-1013, Latvia
Phone: +371 7378670; +371 7371583
Fax: +371 7372581
E-mail: rar@mail.deac.lv; rarmark@mail.deac.lv
Number of employees: 420

Year of foundation: 1946
Turnover in
2003 – 5.5 MEUR
2004 – 8.2 MEUR
2005 – 6.9 MEUR
Main markets:
Russia, Ukraine, Belarus

RAR offers the following products: control and measuring devices for motorcars and tractors (separately, as well as instrument panels and assemblies: speedometers, tachometers, manometers, voltmeters, pressure indicators, fuel level indicators, coolant temperature indicators), fuel level gauges, pressure-operated alarms and switches, switch devices for motor-vehicle board systems to control the levels of oil, coolant and washing fluid; automotive accessories: windshield wipers, headlamp wiper arms and blades, flexible shafts for driving speedometers, steering column switches; various locks: hasp locks, mortise locks, padlocks and small locks for cabinets.
The company utilises the following manufacturing processes: metal-machining; punching shop; pressure casting of zinc alloys, as well as plastics; galvanic and paint-coating; assembly of finished products. Manufacturing units are equipped with the necessary metal-machining equipment, turning-drilling, milling, grinding, welding, pressure casting and many other kinds of machinery. Most of the equipment has been designed and manufactured by the company itself. The continuous operation of core production is ensured by in-house maintenance units: tool-making, mechanical repairs and energy supply.
The company's strategy is to establish long-term business relations with leading automotive and tractor manufacturing companies in Russia and other countries, offering them high quality products based on advanced technologies.
The company's management system is certified to ISO 9001:2001.

MICROELECTRONICS

ALFA RPAR, JSC

Chairman of the Board: Mr. Aleksandrs Kuzņecovs
Contact Person: Mr. Aleksandrs Zaslavskis (Latvian, English, Russian)
Address: Ropažu 140, Riga, LV-1006, Latvia
Phone: +371 7553075, +371 7553533
Fax: +371 7553173
E-mail: alfa@alfarzpp.lv

Web site: www.alfarzpp.lv
Number of employees: 203
Year of foundation: 1992
Turnover in 2001 – 1.4 MEUR
2003 – 2.0 MEUR
2004 – 3.0 MEUR
2005 – 1.871 MEUR

ALFA was originally founded in 1959 and went on its way from the first transistor in 1960 and first IC in 1962, to precision analogue-to-digital integrated circuits. Our company has lengthy experience in the design and manufacture of analogue integrated circuits – operational amplifiers, voltage comparators, DACs & ADCs.
Our company is able to perform R&D of new products in accordance with customer requirements.
The high proficiency of our specialists and workers permits ALFA to carry out every step: development of ASIC, production, measurement and testing of finished products. Our main applications are automotive and ASIC (to custom specifications).
Currently, ALFA also offers subcontracting in PCB assembly:

- SMT
- through-hole
- automatic conformal coating
- AOI
- in-circuit electrical testing

ALFA seeks cooperation in ASIC design & production and subcontracting in PCB assembly.

MIKROELEKTRONIKA, LTD SC

Director: Mr. Aleksandrs Kuzņecovs
Contact person: Mr. Aleksandrs Zaslavskis (Latvian, English, and Russian)
Address: Ropažu 140, Riga, LV-1006, Latvia
Phone: +371 7543345
Fax: +371 7541817

E-mail: micro@tl.lv
Number of employees: 20
Year of foundation: 1995
Turnover in
2004 – 5.2 MEUR
2005 – 5.2 MEUR

The main fields of activity are:

- design of IC (ADC/DAC, IC for automotive and telecommunication applications, etc.) and organisation of their production at the ALFA wafer plant (Riga, Latvia)
- semiconductor test systems
- solving applied problems in the fields of telecommunications and control systems using our IC and IC of other companies
- PCB design
- design of automotive, telecommunication and control devices

ELECTRICAL ENGINEERING

ABB, LTD

Director: Mr. Bo Henriksson (English, Swedish, Estonian)
Address: Tiraines iela 3a, Riga, LV-1058, Latvia
Phone: + 371 7063600
Fax: + 371 7063601
E-mail: info@lv.abb.com
Web site: www.abb.lv

Number of employees: 100
Turnover in:
2003 - 15.54 MEUR
2004 - 11.8 MEUR
2005 - 18.72 MEUR

ABB LTD is a part of the international technology group ABB.
ABB LTD has been operating in Latvia since 1991.
ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. We help our utility and industry customers to use electrical power effectively and to increase industrial productivity in a sustainable way.
Company offers for customers a broad range of services and solutions for power transmission and distribution, industrial automatization and low voltage systems and components.
Also we offer full spectrum industrial, products and systems service for our customers.

DAMBIS, JSC

President: Mr. Edgars Zausajevs (Latvian, Russian)
Address: Ganibu dambis 24a, LV-1005 Riga, Latvia
Phone: +371 7381257, Fax: +371 7381671
e-mail: info@dambis.com
web site: www.dambis.com
Number of employees: 310 in 2005

AS DAMBIS was founded in 1992.
Turnover in
2003 – 11.1 MEUR
2004 – 14.2 MEUR
2005 – 15.2 MEUR
Main markets: Finland, Sweden, Estonia, Denmark.

The company from the very beginning was specialized in production of electronic, electric and telecommunication equipment. Beginning with 1998, additionally to production of telecom switches, manufacture of robotized test equipment and technological modules for automated assembly lines was developed.
In 2000 production of sub-assemblies and assemblies of telecom UHF radio links was started.
Production of conveyors was started in 2004 for metal working shops, and in 2005 for mines.
At the end of 2005 production of electric installation products was started, with plans of rapid growth in 2006.
Production of complex products in the company is based on strongly developed metal working facilities, with more than 10 new CNC machines installed in 2005, enabling us to make at our plant all parts, how complicated and precise they might be.
EN ISO 9001:2000 (since 2002) and EN ISO 14001:2004 (since 2005) certificates are evidence for expertise of the company and skill of its personnel.
All company's products are exported to European Union countries.
The company, having good capabilities to further growth, looks for cooperation partners in the field of manufacture sophisticated electric, electronic, electro-mechanical, mechotronic equipment. We offer complete solutions, including production of metal parts, final assembly and electrical testing.
The company is ready to cooperate on contract/subcontract basis.

JAUDA, JSC

President: Mr. Jānis Šimins (Latvian, English, Russian)
Contact person: Mr. Dainis Dērics
(Latvian, English, Russian)
Address: Krustpils 119, Riga, LV-1057, Latvia
Phone: +371 7725789
Fax: +371 7725770
E-mail: info@jauda.com
Web site: www.jauda.com

Number of employees: 250
Year of foundation: 1961/1991
Turnover in
2003 – 17.6 MEUR
2004 – 18.6 MEUR
2005 – 19.8 MEUR
Main markets: Baltic States, Scandinavia, Germany, Russia, Belarus, Kazakhstan

Jauda began its activities in 1961 as an official state enterprise, but was reorganised into a joint-stock company. Jauda produces electrical equipment, and has gained customers in a wide range of production and service areas. The company makes products for power development and the solution of technical problems. The power company shareholders are the enterprise's workers. Proof that the enterprise thinks about the future can be seen in the use of new technologies and the development and manufacture of electrical equipment which has enabled the introduction of new efficient production methods. The company considers the development of workers' intellectual potential to be a key factor for growth. Workers skills and qualifications are continuously upgraded, as new technologies require deeper knowledge, including knowledge of other languages. Jauda is now working intensively both in western and eastern markets and continuously searches for new partners by participating in international exhibitions and conferences in many countries all over the world.
The company's management system is certified to ISO 9001:2000.

LEXEL FABRIKA, LTD

Owner: Schneider Electric 100%
Managing Director: Mr. Alvis Vagulis (Latvian, English, Russian)
Address: Deglava 60A, Riga, LV-1035, Latvia
Phone: +371 7549748
Fax: +371 7549767
E-mail: alvis.vagulis@lv.schneider-electric.com
Web site: www.lexel.lv

Number of employees: 209
Year of foundation: 1993
Turnover in
2003 – 6.3 MEUR
2004 – 6.4 MEUR
2005 – 9.75 MEUR
Main markets: Baltic States, Scandinavia

Lexel Fabrika (LF) owned by Schneider Electric 100% has been in subcontracting business for more than 10 years starting with simple manual and semi automatic assembly of switches and socket outlets. Competence of plastic moulding process has been developed since 1994. Initially it was decided to concentrate on two competences above and just purchase other materials and services. In 2003 LF has taken in new competence - assembling of passive elements of electronics (patch panels, patch cords etc). In addition LF has very good know how in logistics which is a key to maintain good customer service level > 97%. Finally working with few customers LF has been trying to keep all of them satisfied by actively listening customer "voice" and providing an individual treatment to each of them.

There are 20 thermoplastic moulding machines; 13 thermoset (hard plastic) moulding machines; 11 automatic and semi automatic assembly machines and 5 different size thermowrapping machines in Lexel Fabrika. The production and warehousing occupies 4200 m^2 today but it is planed to expand the operations to 7400 m^2. Quality Management System is organized according ISO 9001:2000 and Environmental Management System according ISO14001:1996
In conclusion all above mentioned combined with low labour cost and low overhead cost makes Lexel Fabrika competitive and attractive for West European companies which are going to outsource their manufacturing activities to Eastern Europe.

REBIR, JSC

President: Mr. Jānis Zudāns (Latvian, Russian, German)
Contact person: In western countries – Ms. Olga Vindacha (Latvian, Russian, English, German)
In eastern countries – Mr. Igors Mihailovs (Latvian, Russian, German)
Address: Viļakas 4, Rēzekne, LV-4600, Latvia
Phone: +371 4634357
Fax: +371 4633405
E-mail: rebir@rebir.lv

Web site: www.rebir.lv
Number of employees: 1540
Year of foundation:1971
Turnover in
2003 – 23.3 MEUR
2004 – 21.7 MEUR
Main markets: Germany, Poland, Italy, Spain, UK, Russia, Ukraine, Baltic States, Kazahstan

Power tools, jig saw blades, hand tools, cable reels and plastic products are the main business of Rezekne Special Economic Zone company Rebir. The company has a very large production capacity available.
The company offers a complete cycle, from the development of an idea up to a ready-to-use power tool in a warehouse. Designers, engineers, technologists and other highly skilled employees work at one division, their task is to develop new products that should be compatible, accurate, easy-to-use, reliable and as perfect as possible.
The company's main goal is customer satisfaction.
Over the last ten years, exports to Europe have made up the majority of production volume, the main European export markets being Germany, Italy, Spain, the Netherlands and the UK.
Business contacts are being developed with USA distributors.

Rebir continuously seeks new customers and distributors, and is ready to consider all offers and opportunities for cooperation.
The company's management systems are certified to ISO-9001:2000.

REBIR produces power tools such as:

- circular and chain saws
- angle and straight grinders
- hand planes and routers
- drills and hammer drills
- jigsaws and mixers
- perforators
- hammers
- multi purpose carpentry machines
- cable reels and various plastic products; jigsaw blades and other accessories for power tools (bits, pointed chisels, etc.)

TELNET, LTD

Director: Mr. Egīls Baumanis (Latvian, Russian)
Contact person: Ms. Daiga Neile (Latvian, Russian, English)
Mr. Valdis Ozols (Latvian, Russian)
Address: Raudas 29, Tukums, LV-3101, Latvia
Phone: +371 3125653
Fax: +371 3181276
E-mail: teln@telnet.lv
Web site: www.telnet.lv

Number of employees: 7
Year of foundation: 1994
Turnover in
2003 – 0.1 MEUR
2004 – 0.145 MEUR
2005 – 0.16 MEUR
Main market: Baltic States

TELNET started its operations by designing, assembling and installing communication, computer and signal network devices. During the manufacturing process, new ideas have emerged on the improvement of the existing components. The next step was to bring together a creative and professional team who not only improved production, but also started creating completely new network components.
Main products are: structural components of communication networks, structural components of computer networks, structural components of signal networks.
Product construction, materials used and work quality guarantee full conformity with telecommunication, electrical safety and other standards.

TELNET products: distribution boxes, adapters, blocking devices, connection boxes with overvoltage protection, on-cover and under-cover wall sockets, timers, dimmers, key locks, external door stations, and many more.
In 1996, the company became one of the suppliers to Lattelekom (Latvia's main telecommunications supplier). Many of products are regularly manufactured to meet the particular needs of Lattelekom in its ongoing network modernisation.
Since 2000, products have also been used in the network development project of Littelekom (Lithuania).
Products are regularly exported to Lithuania, Estonia, Belarus and Finland.

RER, JSC

President: Mr. Jānis Čakstiņš (Latvian, Russian)
Contact person: Mr. Oļegs Šapovalovs (Russian, English, Latvian)
Address: Ganību dambis 31, Riga, LV-1005, Latvia
Phone: +371 7381193
Fax: +371 7382442
E-mail: provodnik@latnet.lv
Web site: www.rer.lv

Number of employees: 770
Year of foundation: 1946/1993
Turnover in
2003 – 11.9 MEUR
2004 – 11.4 MEUR
2005 – 14.2 MEUR
Main markets: Ukraine, Russia, Sweden, Germany

The Riga Electrical Machine Building Works was first established in 1946, on the basis of the former Russian-French company "Provodnik", established in 1888. In 1993, the enterprise was re-structured into a joint-stock company and in 2002, privatised. The company's core business is the manufacture of traction equipment for electrical trains, light railways and fork lifts, lighting and power supply equipment for passenger rail coaches. The company has a long tradition in design and manufacturing.
The company seeks co-operation in the manufacturing and repair of electric motors and metal processing (casting, turning, tamping and galvanising).

VENTSPILS VENTILATORS, LTD

President: Mr. Muhabat Manonov (Russian, Latvian)
Address: Robežu 3/5, Ventspils, LV-3600, Latvia
Phone: +371 3624546
Fax: +371 3624546
E-mail: gunta.b@apollo.lv
Number of employees: 32

Year of foundation: 1994
Turnover in
2003 – 0.2 MEUR
2004 – 0.14 MEUR
2005 – 0.15 MEUR
Main markets: Russia, Belarus, Baltic States

Ventspils Ventilators provides the following services: design and production of fans in compliance with customers' technical requirements; production, assembly, adjustment and maintenance of fan systems; balancing of fan rotors, and other related services; assistance in fan selection; analysis of fan systems, offering assistance in selection of the necessary fan equipment and producers; design and production of non-standard and punching equipment; contract manufacture of metal products to customer specifications.

SIEMENS, LTD

SIEMENS

Director: Mr. Martti Kohtanen
Contact person: Ms. Vita Gerharde
Address: Lidostas „Rīga" teritorija, Mārupes pag., Rīgas raj., LV-1053, Latvia
Phone: +371 7015500
Fax: +371 7015501
E-mail: siemens.lv@siemens.com
Web site: www.siemens.lv

Number of employees: 124
Year of foundation: 1995
Turnover in
2003 – 68.0 MEUR
2004 – 61.0 MEUR
2005 – 39.12 MEUR
Main market: Latvia

Siemens is a global technological company with 430 000 employees in 190 countries worldwide. Siemens began its operation in Latvia in 1853, with the first telegraph line Riga–Bolderaja. Siemens restarted activities in Latvia in 1995, and Siemens SIA was established.

Now Siemens is successfully working in four key sectors:

- Information technology and telecommunications
- Energy
- Industry
- Health care

In the IT&T sector Siemens offers:

- Telecommunication and data networks
- Fixed and mobile communications
- Broadband access
- Cordless and mobile handsets
- IT consultancy
- Enterprise resource planning system SAP
- Fujitsu Siemens computer products

In the energy sector Siemens offers:

- High- and medium-voltage energy transmission and distribution systems
- Medium-voltage switchgear
- Relay protection
- Substation control and management systems
- Power-generation systems

In the industry sector Siemens offers:

- Industrial automation
- Low-voltage power supply solutions
- Building management systems

In the health care sector Siemens offers:

- Ultrasound systems
- Computer tomography
- Angiographs
- Mammography
- Radiography
- Magnetic resonance systems
- Intensive care systems
- IT solutions

TELECOMMUNICATIONS

BELSS, LTD

President: Mr. Tālis Ziediņš (Latvian, English, Russian)
Contact person: Ms. Kristīne Zolberga (Latvian, English, Russian)
Address: Elizabetes 41/43, Riga, LV-1010, Latvia
Phone: +371 7322333
Fax: +371 7828366
E-mail: belss@belss.lv

Web site: www.belss.lv
Number of employees: 25
Year of foundation: 1994
Turnover in
2002 – 2.1 MEUR
2003 – 2.2 MEUR
2004 – 2.6 MEUR

Distribution, installation and service of radio communication equipment (public mobile radio (PMR)) and accessories; marine products (GMDSS equipment; radar and other marine equipment).

Production:

- low band PMR Lon-M
- low band PMR accessories
- VHF and low band duplexes
- telephone interconnects
- antennae
- alarm and data radio systems in VHF and UHF bands
- light antenna masts (h=18m)

Services:

- radio masts
- base stations
- repeater and antennae installation for GSM network operator Tele2 and CDMA operator Triatel,
- Internet service provider

System integration and installation, including tower, wireless telecommunication system. Between 2002 and 2004 we installed Latvia's first digital TETRA radio system with 24 base stations.

LATVIJAS MOBILAIS TELEFONS, LTD (LMT)

President: Mr. Juris Binde (Latvian, English, Russian)
Contact person: Mr. Ivars Porietis (Latvian, English, Russian)
Address: Ropažu 6, Riga, LV-1039, Latvia
Phone: +371 8000076
Fax: +371 7535353
E-mail: info@lmt.lv

Web site: www.lmt.lv
Number of employees: 534
Year of foundation: 1992
Turnover in
2004 – 212.5 MEUR
2005 – 239.6 MEUR

„Latvijas Mobilais Telefons", Ltd. is the biggest mobile network operator in Latvia. LMT operates on the mobile market since 1992 and is the first mobile network operator in the country.
LMT was established as an operator of NMT system. Within years of its activity the company has undergone rapid development. In January 1995 GSM network has started its operation, in December 1999 a dual 900/1800 Mhz network was opened. Starting with1st September 2002 the customers of the company all over Latvia can use data transmission services. Since December 2004 UMTS 3G mobile communication network has started to operate in commercial mode.
In October 2005 LMT mobile communication network covered 98.18% of the territory of Latvia, enabling 97.46% of Latvian population to enjoy mobile communication possibilities.
Alongside with its main service - voice transmission - LMT similar as the leading mobile communication operators all over the world pays more attention to services related to data transmission and wireless Internet access. LMT was the first in Latvia providing its customers with WAP service (possibility to access the Internet network via mobile handset without using the computer), "Mobile bank", enabling to perform banking operations via mobile handset, as well as GPRS services (data transmission, using data package commutation principle).
Starting with 2005 LMT customers can use EDGE, ensuring in the existing GSM network data transmission speed up to 236 kilobits/sec. That is the highest available mobile data transmission speed in Latvia in the extensive territory, enabling LMT customers to use Mobile TV - watch television broadcasts in their handsets.
LMT has been actively participating in international telecommunication organizations GSM Association, UMTS Forum and ETSI.
LMT has entered into roaming agreements with 385 mobile communication networks in 136 countries. Starting with 2005 LMT permanent subscribers, as well as OKarte users can use their handsets not only in European countries, but also in other continents.
The company provides only communication services and does not sell handsets, however, does its best to ensure that customers receive only high quality communication equipment. In Riga and other cities handsets and additional equipment are sold by official distributors, which have entered into agreements on high quality guarantees and customer servicing with LMT. LMT together with its distributors forms to users of mobile communications a single full service network.

LATTELEKOM, LTD

President: Mr. Gundars Strautmanis (Latvian, English, Russian)
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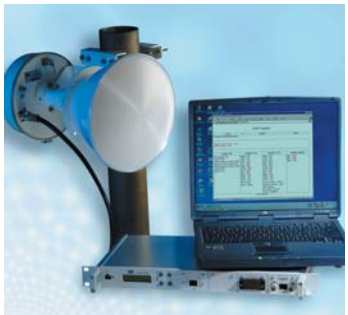
Address: Vaļņu iela 30, Riga, LV- 1050, Latvia
Phone: +371 7055003; +371 7055222
Fax: +371 7055001; +371 7055000
E-mail: inese.lensa@lattelekom.lv

Web site: www.lattelekom.lv
Number of employees: 2820 (07/2005)
Year of foundation: 1994
Turnover in
2003 – 213.8 MEUR
2004 – 193.6 MEUR
2005 – 190.8 MEUR

Lattelekom is the most experienced telecommunications company in Latvia providing basic telecommunications, data transmission, Internet and contact centre services, as well as integrated telecommunications and IT solutions, network construction and maintenance services.
The role of telecommunications and information technologies is increasing nowadays. Access to information, and the exchange of it have become an essential part of life, and all this is enabled by telecommunications. People are different, and so are their needs for communication and exchange of information, and this is where Lattelekom comes in with telecommunications solutions that help to achieve both business and private targets.
Our task is not only to become the best customer service company, but also to serve as an example for companies in other industries. This means that our style of work, our offers and day-to-day communication are subject to customer needs and wishes. Our most important performance indicator is customer satisfaction.
In the new circumstances of competition and market liberalisation we are a company capable of change, always in search of the most efficient and best solution for the customer. This means not only competing with the offers of other companies, but also learning to be able to outperform today's results in the future.
Lattelekom now serves customers in six countries. The big companies with branch networks covering the Baltics, Sweden and Finland and Russia are able to use international data transmission services offered by Lattelekom for centralised management of their business processes. Provision of the above business communication solutions is a logical step in Lattelekom's development, since more and more companies are expanding their business beyond the boundaries of a single country.
Lattelekom is one of the most modern companies in Latvia and one of the best telecommunications operators among the Baltic Sea Region countries. Lattelekom is a modern company not only in terms of the technologies it uses, but also in terms of its organisation as a business.

Lattelekom is a company responsible towards the society and the environment in which it operates. The company is actively involved in the development of an Information Society. While developing its business, Lattelekom takes into consideration not only business, but also social and environment factors. Lattelekom is also one of the biggest tax payers in the country.
Over the last eleven years, the company has invested over EUR720 million in modernisation of the fixed telecommunications network in Latvia. The Lattelekom network can be considered a national treasure, since all of Latvia's population has indirectly participated in its development.
We service more than 626 thousand lines throughout Latvia, over 90% of them being connected to the digital network (numbers as at 30 September 2005).
Lattelekom provides services under several individual brand names. The Verdi brand is used in providing high standard integrated telecommunications and IT services to corporate customers, Apollo provides Internet services, 1188 is used for enquiry services, and WiFi for wireless data transmission services.
Lattelekom has three subsidiaries. SIA C1 was established in July 2005, based around 1188, and at present C1 is the largest customer service provider in the Baltics, employing almost 600 operators in Riga, Liepaja, Cesis, Rezekne, and Ventspils. C1 provides contact services and business process outsourcing. SIA Citrus Solutions was established in July 2005 and it provides network construction and maintenance services. SIA Lattelekom Sakaru Sistēmas offers a wide selection of telecommunications and IT equipment.
The Republic of Latvia owns 51% of the equity capital of Lattelekom and international telecommunications consortium TILTS Communications owns 49%. TILTS is indirectly owned by TeliaSonera AB.
Lattelekom owns 23% of the mobile telecommunications service provider SIA Latvijas Mobilais Telefons.

SAF TEHNIKA, JSC



Managing director: Mr. Normunds Bergs (Latvian, English, Russian)
Address: 24A, Ganību dambis, Riga, LV- 1005, Latvia
Phone: +371 7046840; +371 7046835
Fax: +371 7020009
E-mail: info@saftehnika.com
Web site: www.saftehnika.com

Number of employees: 125
Year of foundation: 1999
Turnover in Financial Year:
2002/2003 – 7.4 MEUR
2003/2004 – 19.2 MEUR
2004/2005 – 15.74 MEUR
Main market: Eastern and western Europe, Asia

SAF Tehnika is a designer, producer and distributor of telecommunications and data transmission equipment. Our solutions are used by cellular network operators, data service providers (ISPs, telecoms and others), governments and private companies, as an alternative to cable channels.
The company was founded in 1999, merging the best experience of two companies — SAF and Fortech, both working in the wireless communication equipment development and distribution business since 1995. From December 1999 until June 2004, SAF Tehnika was a member of the MicroLink group, the leading IT holding company in the Baltics. In 2004, SAF Tehnika acquired a Swedish company Viking Microwave.
The company has grown from 10 to 120 employees in less than 5 years. The company employs only highly qualified people who look after the products until they reach clients, from the design stage to production, testing and delivery. Our R&D department employs engineers who all have 5-10 years of experience in the development of wireless equipment. The needs of clients are our priorities, so there is an ongoing process of new product development and improvement of existing products.
To achieve this, the company's specialists use the latest and most advanced technologies available. Thanks to our non-traditional approach our products offer:

- excellent reliability
- accessibility of data and voice interfaces
- outstanding technical parameters for radio and data traffic interfaces
- low cost
- compact and handy design
- low power consumption

Through our distributors and partners, SAF Tehnika is active in the Baltics, Scandinavia, UK and other EU countries, eastern Europe, CIS, South America and Asia.
CFM is reliable and cost-effective wireless communications system operating in 7, 8, 13, 15, 18, 23, 26 and 38 GHz frequency bands and providing transmission of voice and data in both metropolitan and rural areas between sites up to 60km* apart. The system employs a modular structure, which means it can be adapted for the specific needs of any business. The system comprises radio (antenna and Outdoor Unit – ODU) and interface (Indoor Unit – IDU) blocks. By choosing CFM with the appropriate interface you can build transmission systems for voice (E1 or E3), data (Ethernet or V.35), as well as combined solutions for voice and data combination (E1 or E3+Ethernet or V.35). CFM is available with 4, 8, 16 and 34 Mbps data transmission rates.
The latest addition to the CFM product family are the 2xE1 Full and 4xE1 Outdoor Units. This system is initially designed to provide 4 Mbps or 8 Mbps of traffic capacity implemented as 2E1 or 4E1 (G.703) channels.
The FO unit has an ultra compact – "all-in-one" design for an affordable price, making this product perfect for mobile operators and other users who have no need to have equipment located indoors.
Microwave radio channel quality is at least as high as good quality copper or fibre cable channel quality, if `radios are installed properly; it features ultra-low error rates and very high channel stability.
A convenient and modern management system has been created to provide complete configuration, control and monitoring of the equipment in operation locally and remotely. Information on operations can be obtained from the LCD display on the IDU or a computer monitor. The CFM management system utilises Web, SNMP and Telnet/Terminal interfaces, it is based on the TCP/IP protocol. Feature-rich loop-back functionality is available for all models of CFM equipment. The radio, base band and interface (E1, E3 and V.35) loop-backs are provided for channel testing for the convenience of customers. The product is made in accordance with ETSI standards (EC R&TTE directive) and conforms to set requirements. CFM is CE marked.

* Depends on availability required, climatic zone, frequency band, system capacity etc.

VEF-KTR, LTD

President: Mr. Ojārs Grigāns (Latvian, Russian)
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Address: Brīvības gatve 214, Riga, LV-1039, Latvia
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Fax: +371 7515883, +371 7515951
E-mail: atc@vef-ktr.lv, market@vef-ktr.lv
Web site: www.vef-ktr.lv

Number of employees: 55
Year of foundation: 1999/1919
Turnover in
2003 – 1.9 MEUR
2004 – 1.87 MEUR
2005 – 0.71 MEUR
Main markets: Russia, CIS countries, India, Iraq, Germany

VEF-KTR is Latvia's major manufacturer of switching equipment. The company's digital exchanges for public and private telephone networks are in line with ITU-T recommendations. The company has Certificates (type approvals) from Russia, Ukraine and Latvia and modifies the equipment to suit the technical requirements of particular customers.
The core activities of VEF-KTR are to design, manufacture, install and commission switching systems (digital telephone exchanges). Technical maintenance of switching equipment during the period of guarantee and post-guarantee is also undertaken. The company is also involved in design and manufacturing of hardware, metal and plastic processing, and water-jet cutting of different materials to any shape.
Most of the products are exported to Russia, where the TECHPROMPARTNER company has been founded with VEF-KTR as a part-owner. One of VEF-KTR's exchanges, the KVANT-E with switching capacity of 5000 lines, was installed at Russia's Yuri Gagarin Cosmonaut Training Centre in 2000.
VEF-KTR has much experience having participated in the implementation of many international projects. Together with TCIL (Telecommunications Consultants India Limited), VEF-KTR won a number of international tenders to supply and install switching equipment in southeast Asia. VEF-KTR and ICET, Italy, have signed a Memorandum of Understanding, which will allow each partner to complement their own products with those of their partner in their respective markets.
The company's development strategy foresees expanding its sphere of influence into international telecommunications equipment markets, the manufacturing of new products and diversifying its range of services.
VEF-KTR welcomes partners for successful co-operation in the design of new telecommunications systems, the development of new alternative products and services, the creation of joint ventures for design, production and implementation of new projects.
The company is interested in attracting investment to increase the efficiency of its business. Advanced technology, high technical potential, proficiency and sincere relations with customers in developing long-term relationships are guaranteed when dealing with VEF-KTR.

RESEARCH & DEVELOPMENT, EDUCATION

FACULTY OF ELECTRONICS AND TELECOMMUNICATIONS, RIGA TECHNICAL UNIVERSITY

Dean: Mr. Guntars Balodis
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E-mail: balodis@rsf.rtu.lv
Web site: www.rsf.rtu.lv

Number of students: 1000+
Number of staff: 85
Year of foundation:
1862 (RTU),
1966 (ETF)

The Faculty of Electronics and Telecommunications (ETF) of Riga Technical University was established as an independent unit in 1966. Bachelor, Master and Doctoral studies in Electronics and Telecommunication programmes are offered to more than 1000 students by more than 50 academic staff. The Faculty's staff is experienced in providing high quality research-based education for full-time and part-time students (evening classes and correspondence). For more than 10 years, ETF has been providing education in English for foreign students from Lebanon, Pakistan, India and other countries.
The research interests of staff members range from optical fibre networks and microwave scattering to microelectronics and signal processing. New emerging research areas are technology- enhanced learning and multimedia design.

INSTITUTE OF INDUSTRIAL ELECTRONICS AND ELECTRICAL ENGINEERING, RIGA TECHNICAL UNIVERSITY

Director: Prof. Leonids Ribickis (Latvian, English, Russian)
Address: Kaļķu 1, Riga, LV-1050, Latvia
Phone: +371 7089400; +371 7089415
Fax: +371 7820094
E-mail: leonids.ribickis@rtu.lv
Web site: www.eef.rtu.lv
Number of employees: 20
Year of foundation: 1998

The Institute of Industrial Electronics and Electrical Engineering (IEEI) in the Riga Technical University offers scientific research and product development services, technical expertise and educational programmes at bachelor, master and doctoral levels.
IEEI has the highest level of expertise in the fields of :

- Industrial Electronics and Automation
- Power Electronics and Mechatronics
- Electrical Drives and Machines
- Motion and Process Control
- Measurement of Electrostatic and Electromagnetic Fields
- Electrical Surface transport

IEEI is open to co-operation in R&D and engineering education.

INSTITUTE OF ELECTRONICS AND COMPUTER SCIENCE, UNIVERSITY OF LATVIA

Director: Mr. Ivars Biļinskis (Latvian, English, Russian)
Contact: Mr. Modris Greitāns (Latvian, English, Russian)
Address: Dzērbenes 14, Riga, LV-1006, Latvia
Phone: +371 7554500, +371 7558203
Fax: +371 7555337
E-mail: iluta@edi.lv
Web site: www.edi.lv
Number of employees: 101

Year of foundation: 1960
Turnover in
2003 – 0.6 MEUR
2004 – 0.7 MEUR
Business area: R&D in the field of Digital Signal Processing (DSP), specifically, in the area of the novel Digital Alias-free Signal Processing (DASP) technology.

DASP represents an advanced technology for wideband DSP system design and cost-effective processing of signals digitally in a wide frequency range not limited by half the sampling rate as usual. Therefore this technology is especially attractive for microwave and Radio Frequency designs as its application opens up the possibility of replacing analogue microwave subsystems by their substantially more effective and less expensive digital counterparts. That can be done for signal frequencies up to 2-3GHz.
Expertise in the DASP application area, including development and production of various DASP based hardware/ software Virtual Instruments.
Substantial knowledge and well-developed engineering know-how has been accumulated in the area of extra-fine resolution event timing and highly precise continuous time interval measurements.

The picoseconds resolution timing techniques that have been developed are crucial for many applications such as non-uniform sampling of Radio Frequency and Microwave signals, jitters tracking in wideband telecommunication systems, Satellite Laser Ranging (SLR) The developed novel approach and techniques allow resolution down to units of ps to be achieved.
A lot of experience has been gained in the area of customised PC-based system development and design for applications where high performance timing measurements are essential, particularly, in the area of measuring system design for SLR.
Products and service: development and production of various DASP-based signal processing systems, both hardware and software Virtual Instruments.
Interest in co-operation: participation in R&D projects, DASP technology transfer.

LABORATORY OF ELECTRO-DEPOSITION OF METALS, INSTITUTE OF INORGANIC CHEMISTRY, RIGA TECHNICAL UNIVERSITY

Head of laboratory: Ms. Ingrīda Vītiņa (Latvian, English, Russian)
Address: Miera 34, Salaspils, LV-2169, Latvia
Phone: +371 7800772
Fax: +371 7800779
E-mail: nki@nki.lv
Web site: www.nki.lv

Number of employees: 13
Year of foundation: 1987
Turnover in
2003 – 0.1 MEUR
2004 – 0.29 MEUR
2005 – 0.29 MEUR

Fields of research and technological development:
Mechanisms of electro-deposition and structural formation of metals and composite coatings of metal-inorganic compounds onto light, hard alloys and vacuum-evaporated metal substrates. Electro-deposition of metals Sn, Au (electro- and chemically deposited), X-ray amorphous Co-W containing 45-55 wt% W, Ni-B, Fe-Ni and Cu functional coatings on to:

- Cu and Cu alloys
- vacuum evaporated copper, permalloy and titanium
- Al alloys
- hard metals niobium pf production superconductive Coatings Nb3Sn

Electro-deposition of black, solderable, conductive composite coatings of:

- tin/Chavrel phase PbMo6S8 of production superconductive coatings
- tin/niobium carbonitride
- tin/titanium nitride

Inter-diffusion of substrate metals and coatings, formation of inter-metallic layers, electro deposition of barrier layers, preventing inter-diffusion.
Chemical, physicochemical and physical testing (T-088) of metal coatings, metals, metal articles and electrolytes:

- determination of qualitative indices of coatings and rolled, cast etc. metal articles
- determination of chemical composition, structure, sort (chemical and X-ray phase analysis, optical, scanning and transmission electron microscopy)
- thickness, porosity, adhesion of coatings
- cracking, re-crystallisation, porosity of metals
- chemical composition of carbonaceous steels, alloyed steels, copper alloys, hard-facing alloys.

INSTITUTE OF SOLID STATE PHYSICS (ISSP), UNIVERSITY OF LATVIA

Director: Mr. Andris Šternbergs (Latvian, English, German, Russian)
Contact person: Mr. Andrejs Lūsis (Latvian, English, Russian)
Address: Ķengaraga 8, Riga, LV-1063, Latvia
Phone: +371 7187810; +371 7187794
Fax: +371 7132778
E-mail: stern@latnet.lv; lusis@latnet.lv
Web site: www.cfi.lu.lv
Number of employees: 194
Year of foundation: 1978
Turnover in
2003 – 0.27 MEUR
2004 – 0.27 MEUR
2005 – 0.27 MEUR

Subjects of research at ISSP include:

- development of new inorganic materials (such as single crystals, glasses, ceramics, thin films) for electronics and optics
- design and manufacture of scientific and analytical instruments and instruments for environmental monitoring
- vision research, development of new technologies for psycho-physical testing and primary vision care.

ISSP offers post-graduate and graduate curricula in solid state physics, material science, chemical physics, physics of condensed matter, semiconductor physics, and experimental methods and instruments.

In 2002, a chair of Solid State and Material Physics was established at ISSP. The Scientific Board of ISSP is eligible to award PhD degrees in physics in the specialities mentioned above and in medical physics. ISSP also provides teaching courses (Basics of Informatics for educators, Operating Systems, Systems Analysis, Modern Education Environment, Intranet/Internet technology) as well as the use of "client-server" and "virtual laboratory" technology to create new methods of e-education.

Research at the ISSP is carried out in close co-operation with scientific groups all around the world. ISSP participates in EC Frame-work Programmes (FP5, FP6) as well as in EURATOM, COST and EUREKA projects. ISSP is involved in several national projects on the physics and technology of micro- and nano-structured materials and devices for electronics and photonics.

ISSP is an RTD partner in two international projects related to new technologies for SMEs: the Nordic-Baltic project "SoC for SMEs" on embedded electronics for machinery as well as for increasing SMEs' awareness and training on system co-design; and the EU FP6 project "Removal of Hazardous Substances in Electronics: Processes and Techniques for SMEs (GreenRoSE)". ISSP offers general assistance to SMEs to participate in European RTD projects related to their scientific and technological needs (EUREKA, FP6).

ISSP is recognised by the European Commission as an "Excellence Centre of Advanced Material Research and Technology (CAMART)". The mission of the Centre is to promote research and disseminate knowledge of modern functional materials and high technologies for electronics and photonics. The Centre has to promote restructuring of the science and technology sectors and to support the economic and social needs of Latvia's regions, to attract young researchers and to adopt the best experience in collaboration with European colleagues.

The Centre offers industry:

1. Scientific and technological guidance for easing the assimilation of micro and nanotechnologies
2. RTD work and advice to enterprises in transferring technology
3. Coordination of European collective research actions.

ISSP has joint RTD projects with Latvian enterprises for development prototypes of new multi-layer solid state batteries (A/S Sidrabe), intelligent sensor instruments (RTU, A/S Alfa Pro), scintillators (Baltic Scientific Instruments), as well as in the development of nitride-thin-film technology (A/S Alfa) and glass-fibre products (A/S Valmieras stikla skiedra).

RTD topics appropriate to industrial application include:

- applications of "smart" ferro-electrical materials in electronics, optoelectronics and micro-electro-mechanics
- electro-physics and electro-chemistry of specific semiconductor materials, mixed conductors and ion conductors for functional coatings and micro batteries, including material preparation methods (thin and thick film technologies, sol-gel process)
- new measurement technologies and instruments with artificial intelligence (software environment for intelligent sensor electronics; application technologies for food quality instrumentation) and environmental pollution monitoring (methods and instrumentation)
- unique measuring and monitoring apparatus and systems for:

1. access security on the basis of Touch Memory (TM) elements and Proximity Cards
2. test power units (high-voltage switches, automatically disconnecting switches, power transformers)
3. determining heavy-metal content (As, Cd, Co, Cu, Fe, Hg, Tl, Ni, Pb, Sn, Zn, Bi, Mn) of liquids, soil and foodstuffs.

PRUSIA, LTD

President: Dr.sci.ing. Ilgaitis Prūsis (Latvian, English, Russian)
Address: Zīlīšu iela 10, Jūrmala, LV-2003, Latvia
Phone: +371 7752571
Fax: +371 7752571
E-mail: ilgaitis@hotmail.com
Number of employees: 2

Year of foundation: 1992
Turnover in
2003 – 0.01 MEUR
2004 – 0.01 MEUR
2005 – 0.01 MEUR
Main market: Latvia

The scientific-technical society PRUSIA was established for the research and development of renewable energy applications. The main significant invention is the Transistor of Alternating Current (TAC). The TAC is principally a new semiconductor device, which can be fed directly from an AC power supply network. TACs have extremely high efficiency of up to 99%, high switching frequency up to 1 MHz, simplified design, reduce total costs, cut rectifier and filter costs, allow any power applications in the range up to 1000kW.
Patents: 01109/ SE, 12763/LV, 12933/LV.

Seeking cooperation in:
- design of power supplies
- computer hardware
- lighting applications
- wind-power plants
- electronic transformers etc.

LATVIEŠU INTELEKTUĀLĀS SISTĒMAS, LTD

Director: Prof. Egīls Ginters (Latvian, English, Russian)
Address: p.o.box 26, Sigulda, LV-2150, Latvia
Phone: +371 9266909; +371 7973784
Fax: +371 7970126
E-mail: egils.ginters@lis.lv
Web site: www.lis.lv

Number of employees: 7
Year of foundation: 1991
Turnover in
2003 – 0.5 MEUR
2004 – 0.6 MEUR
2005 – 0.5 MEUR

Latvian Intelligent Systems, Ltd (LIS) is an information technology company with a wide range of activities.
The company's main business areas are software engineering and development, contract programming, development and installation of computer networks, assembly and integration of computer systems, consultancy and training in IT, design of e-learning tools on logistics information systems and information technologies.
Half of the associates are involved in science and research related to the development of new technologies. Recent activities include designing a reliable immobiliser based on advanced biometrics for car security systems, and social system simulation aimed at developing management processes in a knowledge-based society. The company has more than 10 years experience in the fields of education and R&D, and has extensive relationships with European and Latvian higher education institutions.

The company participated in EC-funded projects AMCAI (COPERNICUS 94, 1995–1997) and DAMACHP (COPERNICUS 97, 1998–2000), BALTPORTS-IT (IST 5th Framework, 2001–2003) carried out in the field of IT-solutions for maritime applications, port logistics, and management. Latvian Intelligent Systems was the co-ordinator of the EC Leonardo da Vinci project LOGIS (2001–2003) related to e-learning in Logistics Information Systems. Currently, Latvian Intelligent Systems is co-ordinating the EC Leonardo da Vinci project LOGIS MOBILE (2004–2006) aimed at the introduction of mobile telecommunication technologies in consulting and SocSimNet (2004–2006) to develop interdisciplinary curricula at the masters' level. The company also participated in EC 6th Framework project e-Logmar-M (2004-2006) aimed at networking technologies in logistics and transit information support.

RIGA TECHNICAL COLLEGE

Director: Mr. Jānis Rozenblats (Latvian, English, Russian)
Address: Braslas 16, Riga, LV-1035, Latvia
Phone: +371 7081400
Fax: +371 7562610
E-mail: brasla@rtk.lv

Web site: www.rtk.lv
Number of students: 2100
Number of employees: 365
Year of foundation: 1935

The history of Riga Technical College can be traced back to 1935, when VEF Vocational School was founded. Since then, the school has expanded considerably offering a wide range of specialties, changed its name several times due to mergers, takeovers and alliances with other educational institutions, and become one of the biggest vocational and professional education schools not only in Latvia, but in the Baltics. Currently, it comprises three buildings as well as numerous workshops and laboratories.

Specialties aligned with electronics:
- Vocational Secondary Education
- Electronics Technician
- Computer Technician
- Computer Numerical Control (CNC) Equipment Installer
- Telecommunication Technician

First level higher (professional /college) education:
- Computer System and Network Administrator
- Electronics Specialist
- Telecommunication Specialist
- Mechatronics Specialist

Interest in co-operation: studies in RTC, participation in projects, collaboration in scientific and technological development.

SOCIETY BUSINESS INNOVATION CENTRE OF THE LATVIAN ELECTRONICS INDUSTRY (LEBIC)

Chairman of the Board: Mr. Janis Smilga
Director: Ms. Linda Runkovska (Latvian, English, Russian)
Address: Ropažu 140, Riga, LV-1006, Latvia
Phone: +371 7542184
Fax: +371 7542184
E-mail: lebic@lebic.lv
Web site: www.lebic.lv

Number of employees: 6
Year of foundation: 1997
Turnover in
2003 – 0.03 MEUR
2004 – 0.02 MEUR
2005 – 0.045 MEUR

LEBIC mission is to promote development of innovative and knowledge-based entrepreneurship in the field of electronic industry and related branches.

The main aims of LEBIC:

1. To consolidate SMEs and research organisations with common needs.
2. To promote a development and implementation in production of new innovative products and technologies.
3. To promote an international co-operation of Latvian SMEs and research organisations.
4. To promote development of regional entrepreneurship.

A significant advantage of LEBIC is well-developed electronic production base in companies located in the neighbouring buildings of the centre, as well as close collaboration with branch companies and research centres, especially in the ICT field.

LEBIC has close contacts with more than 30 designers of SOFT & hardware products for ICT field, 10 manufacturers of ICT hardware products, as well as more than 30 companies being active in implementation and exploitation of ICT products and systems. Most of them are high-tech companies.

The main services of LEBIC:

- Consultations in preparation and management of EU and Latvian research and development projects;
- Consultations in introduction of new technologies in industry;
- Organising of Technology Transfers based on TO and TR;
- Consultation in development of innovation support structures;
- Co-operation partner searches;
- Involvement in EU financed projects;

SEN TEHS, LTD

Chairman of the Board : Mr. Vilnis Eglītis (Latvian, Russian)
Address: Ķengaraga 8, Riga, LV -1063
Phone: +371 7260538
Fax: +371 7112583
E-mail: sts@cfi.lu.lv

Number of employees: 2
Year of foundation: 1993
Turnover in
2003 – 0.01 MEUR
2004 – 0.01 MEUR
2005 – 0.008 MEUR

Business Activities:

- Development of physical and chemical sensors, multi layer thin film coatings for microbatteries.
- Intelligent sensor instruments application technologies for measurement, control and testing technique as well for embedded electronics.
- Automation for industry: process and product control, machine vision, odor control, dynamic weighing; installation, mounting; programming.
- Electronic circuit and PCB design, product development; software, hardware.
- Traffic signals and control.

The specialists of SenTehS offer to industry:

- Expertise to enterpricies in the above field, and scientific and technological guidance for asing the assimilation of micro and nanotechnologies for them.
- Providing technical support and advice to enterpricies as well as assistance in transferring technology in the above field.
- General assistance to SMEs to encourage their participation in European RTD projects related to their scientific and technological needs (EUREKA, FP6).
- Identification and dissemination of good practices from European partners towards prospective institutional partners.
- Contributing to the coordination of European collective reseach actions.
- Contributing to the sharing of experience, expertise and tools between European partners of the Institute of Solid State Physics, benchmarking and preparation of common materials (website, seminars, leaflet, etc.).
- Knowledge transfer to SMEs in
  - Application of intelligent sensor systems for development instruments for health, food quality and fraud control;
  - Application of system on chip technologies for embedded electronics in machinery;
  - Increasing SMEs awareness and training for system co-design.
  - Research, modelling and prototyping.
- PCB assembly and mechanical work.

Interested in co-operation:

- Artificial intellect, recognition technique, sensor instruments.
- Manufacturing and co-development of measuring equipment, sub-modules to specifications for both mechanical and electronics products.
- Non-automated (manual) assembly of electronics boards and modules, mechanical works.

Company's business areas/products:

- Physical and chemical sensors, multi layer thin film coatings for optics and microbatteries.
- Intelligent sensor instruments for measurement and control.
- Automation for industry: process and product control.
- Electronic circuit and PCB design, product development; software, hardware.
- Design and mechanical works.
- Consulting, development projects and quality management.

Customer groups:

- Electronic instruments and mechanical works for SME and companies in Latvia and Lithuania.
- Consulting and project development for Latvian companies.
- Consulting (quality management) of Latvian companies.

VIDZEME CENTRE OF PROFESSIONAL EDUCATION

Executive Director: Mr. Kārlis Greiškalns (Latvian, English, Russian)
Contact Person: Mr. Māris Lesiņš (Latvian, English, German)
Address: Purva 12, Valmiera, LV-4201, Latvia
Phone: +371 4281788
Fax: +371 4281756
E-mail: gtz.bbz@delfi.lv
Web site: www.vidzeme.pic.lv
Number of employees: 17
Year of foundation: 2000
Turnover in
2003 – 0.2 MEUR
2004 – 0.215 MEUR
2005 – 0.257 MEUR

The Vidzeme Centre of Professional Education (VPIC) is a training institution providing further vocational training courses for young people and adults to extend their professional skills or to provide re-qualification.
VPIC is a Latvian-German joint project. VPIC was established in the framework of a German government support programme "Transform" for eastern European countries. VPIC's programme was initially operated by Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), a state-owned enterprise of the Federal Republic of Germany, for international cooperation with world-wide operations.
VPIC comprises several departments including the Electronics/Industrial Electronics vocational education training department. VPIC is equipped with all modern facilities required for the listed activities and also has all requirements for the training of disabled persons.

SERVICE COMPANIES

ADI, LTD

Director: Mr. Juris Bolužs (Latvian, English, Russian, French)
Phone: +371 7892087
Address: Stabu 19 – 212, Riga, LV-1011, Latvia
Phone: +371 7860094
Fax: +371 7242566
E-mail: office@adi.lv
Web site: www.adi.lv
Number of employees: 60
Year of foundation: 1993
Turnover in
2003 – 0.4 MEUR
2004 – 1.26 MEUR
2005 – 1.535 MEUR
Main market: Latvia

ADI works with ID documents, i.e. production and personalisation of identity cards, loyalty cards, access-control-systems cards etc. and the protection of them against counterfeiting and forgery. The company provides a full production cycle including artwork proposals as well as security elements and machine-readable elements on cards such as bar codes, magnetic stripes, and memory and microprocessor chips. Since 1999, ADI has manufactured PVC cards at its subsidiary ADI kartes. ADI offers customers card application systems ranging from issuing-control software to applications such as access control and payment systems. The company's engineers develop software for PCs, micro controllers and smart cards, as well as complex solutions including hardware and software design and small-scale production.
ADI seeks cooperation to enlarge their product range, export opportunities, and their offer in PVC cards and card systems.

BTA, JSC

Premier Vice President: Mr. Aivars Neimanis (Latvian, English, Russian)
Contact person: Mr. Ivars Kairišs (Latvian, Russian, English)
Address: K. Valdemara 63, Riga, LV-1142, Latvia
Phone: +371 7025100, +371 7025134
Fax: +371 7025190
E-mail: bta@bta.lv
Web site: www.bta.lv
Number of employees: 675
Year of foundation: 1993
Turnover
2004 – 31.5 MEUR
2005 – 34.9 MEUR

After starting its activities mainly in the area of marine and aircraft insurance in 1993, BTA soon established itself as a universal insurance company able to provide an extensive range of insurance services throughout Latvia.
BTA continues to extend its network of representative offices in Latvia, and in 2004 there were already 25 branch offices and more than 60 client-service outlets. Latvian risk insurance companies may obtain licences for 19 different kinds of insurance. BTA has 18 of these licences. As a result of its successful activities, BTA has grown into a stable insurance company in Latvia, covering one of the largest shares of the risk (non-life) insurance market.
The financial stability of BTA is based on four cornerstones: paid-up share capital, technical reserves, sound reinsurance policy which provides additional protection for its clients as well as for BTA, and a conservative investment policy allowing the company to avoid various financial crises and providing additional profit for BTA.
BTA prepares its insurance offers separately for each individual client and company, taking into account their needs for protection. BTA is therefore an excellent business partner for entrepreneurs.

DOZIMETRS, LTD

Managing director: Mr. Dzintars Zariņš (Latvian, Russian, English)
Address: Tērbatas 28 – 7a, Rīga, LV – 1011, Latvia
Office address: Senču iela 2, Riga, LV – 1012, Latvia
Phone: +371 7283626
Fax: +371 7283626
E-mail: dozimetrs@dozimetrs.lv
Web site: www.dozimetrs.lv

Number of employees: 6
Year of foundation: 1995
Turnover in
2003 – 0.07 MEUR
2004 – 0.22 MEUR
2005 – 0.11 MEUR
Main markets: Latvia, Lithuania, Estonia

DOZIMETRS holds a dominant position in radiation-monitoring system delivery and software production and programming in different usage spheres. Since 1995. Dozimetrs has installed and is maintaining all the radiation-monitoring systems for car and train examination in Latvia. Having won many equipment delivery tenders, Dozimetrs has delivered most of the radiation-measuring equipment to support the dismantling the Salaspils nuclear reactor. Dozimetrs is a stable partner to Latvia's Border guards, the Radiation Safety centre, and the Salaspils Nuclear reactor – providing equipment delivery, installation and service. Our customers also include several state and private structures in Lithuania and Estonia.
Since 1997, DOZIMETRS has been an authorised distributor of the Thermo Electron Corporation (www.thermo.com), a manufacturer of radiation detection products, and is their authorised service provider for Latvia and Lithuania.
Dozimetrs has a small and flexible team; we employ 4 technicians and 2 people in administration.

ERICSSON LATVIA, LTD

President: Mr. Stefan Johansson (English, Swedish)
Contact person: Ilvars Pētersons (Latvian, English, Russian)
Address: K. Valdemara 21, Riga, LV-1010, Latvia
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Fax: +371 709 0001
E-mail: ericsson.latvia@ericsson.com

Web-site: www.ericsson.lv
Number of employees: 7
Year of foundation: 1998
Turnover in
2003 – 0.89 MEUR
2004 – 0.62 MEUR
2005 – 2.41 MEUR

Ericsson is a world-leading provider of telecommunications equipment and related services to mobile and fixed network operators globally. Over 1,000 networks in 140 countries utilize our network equipment and 40 percent of all mobile calls are made through our systems. We are one of the few companies worldwide that can offer end-to-end solutions for all major mobile communication standards.
Through our Sony Ericsson Mobile Communications joint venture we offer a range of mobile devices, including those supporting multimedia applications and other services allowing richer communication. We invest heavily in R&D and actively promote open standards and systems. Also reflecting our ongoing commitment to technological leadership, we have one of the industry's most comprehensive intellectual property portfolio containing over 16,000 patents with an additional 15,000 patent applications pending approval by various patent authorities.
Our origins date back to 1876. Our headquarters are located in Stockholm, Sweden.

Ericsson in Latvia

Already in the beginning of 20th century Ericsson was a well-known trademark in Latvia. In 1890, 15 switchboards produced by LM Ericsson where installed in the first telephone exchange in Riga. In 1993 Ericsson established an authorised representative office in Latvia. The first small telephone exchanges for our business customers were sold since 1995 but in 1997 Ericsson became supplier of various products to the fixed operator Lattelekom. Today Ericsson Latvia Ltd. is a wholly owned subsidiary of the Ericsson group.
The main activities for Ericsson Latvia are marketing, sales and support for the whole Ericsson product portfolio.

ESM GRUPA, LTD

Director: Mr. Jānis Siliņš (Latvian, Russian, English)
Address: Ropažu iela 140–301, a/s ALFA korp. Nr.5, Riga, LV-1006, Latvia
Phone: +371 7 541828
Fax: +371 7541932
E-mail: esm@esmgrupa.lv
Web site: www.esmgrupa.lv

Number of employees: 10
Year of foundation: 1999
Turnover in
2003 – 0.02 MEUR
2004 – 0.05 MEUR
2005 – 0.08 MEUR
Main markets: Latvia, Estonia

The Latvian-Estonian company ESM grupa was founded in 1999 and is an innovative alliance uniting unique production technologies, high-quality materials and a creative team.
ESM grupa provides imaging services on various kinds of self-adhesive materials: 3 M colour tape, bi-colour polyester film, transparent film, 3M protective film for use in stoppings, white vinyl film for colour images. The company offers new product panels for display windows, which is an interesting option for the electronics industry. Our company employs unique American technologies and developments for the manufacture of high-quality products. Customers are welcome to utilise our silkscreen printing, plotter cutting and lamination services. The products are widely used in many industries such as machine building, transport, electronics, and power supply; they are also utilised in the advertising and printing arts sector.

FUSH, LTD

Director: Mr. Vladimirs Ušanovs (Latvian, English, Russian)
Address: Brīvības 152/3, Riga, LV-1012, Latvia
Phone: +371 7364151
Fax: +371 7364154
E-mail: sales@fush.lv
Web site: www.fush.lv

Number of employees: 3
Year of foundation: 1993
Turnover in
2003 – 0.06 MEUR
2004 – 0.1 MEUR
2005 – 0.9 MEUR

FUSH is a supplier of imported electronic components for the development, production and repair of household appliances and industrial machinery. The range of components is very extensive and is divided into the following groups: optoelectronic devices and indicator components; liquid crystal displays and modules; condensers; resistors; crystals; throttles.
Most product groups are available in their full range: relays connectors, components for repair of household appliances and industrial machinery, casings for electronic radio equipment and many kinds of active components from leading global companies.
Some products are stocked in limited ranges. To provide customers with non-stocked items, the company maintains contact with warehouses of internationally-known companies or places orders directly on manufacturing plants. The list of the goods that FUSH can supply is published on their website, complete with prices and technical specifications.

GNT LATVIA, LTD

GNT LATVIA SIA

Chairman of the Board: Juris Ducens (Latvian, Russian, English, German)
Address: Liliju 29, Mārupe, Mārupes pag., Rīgas raj., LV-2167, Latvia
Phone: +371 7018300
Fax: +371 7018301
E-mail: office@gnt.lv

Website: www.gnt.lv
Number of employees: 90
Year of foundation: 1995
Turnover in:
2004 – 59.9 MEUR
2005 - 85.6 MEUR

GNT Latvia delivers IT, entertainment and consumer electronic goods and services, which improve customers' competitiveness in the whole value chain. Our aim is to make our customers more successful and constantly develop profitable, high quality operations. World-class logistic services, customer oriented, energic and friendly customer service and electronic services are our main focus areas.

LATIMPULSS – BIROJA TEHNIKA, JSC

LatImpulss OFFICE EQUIPMENT BIROJA TEHNIKA

President: Mr. Guntars Vītoliņš (Latvian, Russian)
Contact person: Mr. Alvis Zaics (Latvian, English, Russian)
Address: Ķengaraga 10, Riga, LV-1063, Latvia
Phone: +371 7260700
Fax: +371 7259530
E-mail: impulss@balticom.lv

Number of employees: 46
Year of foundation: 1994
Turnover in
2003 – 0.5 MEUR
2004 – 0.53 MEUR
2005 – 0.62 MEUR

The principle activities of the company include sales of office equipment; repair and technical service of office equipment; sales of consumables for office equipment; selling of point-of-sales equipment; repair and technical service of point-of-sales equipment.
Sales and service of office equipment is carried out by the company's office equipment centre. The main and most important feature of this centre compared with other companies of similar profile, is the centre's ability to service and repair equipment manufactured by different manufacturers. The service centre is capable of repairing any equipment manufactured by Canon, Minolta, Mita, Xerox, Ricoh, HP, Konica and other leading office manufacturers. The service centre also supplies office equipment consumables such as toners, ink, paper and other goods necessary for offices to function.
Service centres are also located in rural districts, demonstrating the company's interests in Latvia's main regions – Latgale, Kurzeme and Zemgale, and offering clients from these regions the same choice of services they would get in Riga.

PEREL LATVIA, LTD

Commercial representative: Mr. Gunārs Vikanis (Latvian, English, Russian)
Address: Bezdelīgu 12, Riga, LV-1048, Latvia
Phone: +371 7602145
Fax: +371 7616929
E-mail: gunars.vikanis@perel-latvia.lv
Web site: www.perel-latvia.lv

Number of employees: 5
Year of foundation: 1996
Turnover in
2003 – 0.2 MEUR
2004 – 0.155 MEUR
2005 – 0.20 MEUR

Perel Latvia is a part of the international Perel Group and distributes Perel Oy products in Latvia. Perel imports electronic components, measuring equipment, ESD-protection products, clean-room products, and mechanical, production machinery and electronic testing equipment.
Perel's personnel have over 30 years of experience in the provision of timely and competent customer service. Continuous development in operations and services is a common goal for all 34 employees.
When Perel chooses its suppliers, high-quality products at the best price is the main criteria. The supplier's service ability is a key issue. At the moment Perel has more than 100 suppliers from all over the world.
In 2003, the turnover of Perl Oy was 10,9 MEUR. For 2004, turnover is expected to grow to 11.3 MEUR.
Our main customer groups are:

- Electronics industry (65 %)
- Other industries (10 %)
- Resellers (10 %)
- Schools, utilities and electronics services (10 %)
- Others (5 %)

The managing director of Perel Oy is Mr. Jari Rantala (M.Sc.).

SYSTEMS USA, LTD

Director: Mr. Vladimir Kobenko (Latvian, Russian, English)
Contact person: Mr. Jānis Bikše (Latvian, Russian, English)
Address: Margrietas 7, Riga, LV-1046, Latvia
Phone: +371 7892766; +371 7892760
Fax: +371 7892731
E-mail: vladimirs@systems.lv; office@systems.lv; janis@systems.lv

Web site: www.systems.lv, www.recycling.lv
Number of employees: 18
Year of foundation: 2000
Turnover in
2003 – 0.7 MEUR
2004 – 0.8 MEUR
2005 – 0.9 MEUR

Refurbishing, upgrade, repair and wholesale of used IT equipment are core businesses of SYSTEMS USA. Company is the biggest wholesaler of used IT equipment in Baltic. We distribute used IT products also to dealers in Lithuania, Estonia, Poland, Russia, Byelorussia, Kazakhstan, and Finland.
Delivering low prices and high quality service, company is moving fast to become a trans-European level supplier, developing a dealer network in neighboring countries. Our aim is to be a modern company with small but strong team that would serve its clients implementing optimal business solutions. SYSTEMS USA is looking for cooperation to enlarge export and import possibilities.
In year 2004 two daughter companies "ZAAO Systems" Ltd. and „Systems Recycling" Ltd. were established with an aim to considerably expand operations of SYSTEMS USA offering IT asset management services. Starting recycling of end-of-life electronic and electrical devices and offering warehousing and value-added services in Riga free port special economic zone our IT asset management group provides a full spectrum of services for obtaining the highest possible recovery values by reuse and recycling your electric & electronic assets (www.recycling.lv).
Main fields of operation of the companies:
1. Wholesale of used computer equipment
2. Recycling of electrical and electronical equipment waste
3. Production of new products from the secondary materials
4. Subassembly, packing, labelling, marking and other value-added services for different products
5. Cost efficient and safe storage & logistics in Riga free port special economic zone.