



TimeNav'07 List of Exhibitors

AccuBeat Ltd.

AccuBeat Ltd designs, develops and manufacture high precision frequency/time generation and synchronization products based on Rubidium Atomic Frequency Standard and GPS receivers. We offer a large array of commercial products, as well as products that have been qualified to operate in a highly stressed military environment, including jet aircraft, helicopter, shipborne and ground mobile platforms. We have the capability of customising any of our standard commercial or military "off-the-shelf" products to meet the unique requirements of the customer. AccuBeat's products provides accuracy in the nanoseconds range - time accuracy, and parts per 10⁻¹⁰ frequency accuracy.

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marketing@accubeat.co.il
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Boeing

An aerospace industry leader for nearly a century, Boeing is the world's largest satellite manufacturer and the leading global supplier of human space exploration systems and services. Boeing combines the best global resources and a spirit of innovation to provide best-of-industry, network – centric solutions to military, government and commercial customers worldwide.

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CESAH GmbH

CESAH fosters and accelerates the development of satellite navigation applications in Hessen, Germany. The main focus lies with future Galileo applications. As a hub for satellite navigation in Hessen it's based particularly on an intensive networking with local and regional as well as with the national and international GNSS-Actors. Today already important economic players of the region and regional research facilities belong to the partners. At national level, the centre stands in close exchange with other Galileo and satellite navigations initiatives. The centre is embedded in the ESA technology-transfer program and uses the GALILEO expertise of the ESA operation centre in Darmstadt, Germany.

Phone: +49 6151 39 21 56 1
Web: www.cesah.de
Contact: info @ cesah.com
Booth: 109

Chronos Technology Limited

Established in 1986, Chronos Technology Limited is a UK based business to business ISO-9001 accredited supplier of specialist timing solutions, and GPS & RF components for equipment designers whose products are frequently used in communications and military applications. Chronos is also a leading specialist provider and system integrator of technical solutions for telecom networks, particularly network synchronisation, time of day and remote monitoring applications, supporting the world's migration to Next-Generation-Networks (NGN).

Phone: +44 1594 862 227
Fax: +44 1594 862211
Web: www.chronos.co.uk or www.gps-world.biz
Contact: marketing@chronos.co.uk
Booth: 122

Colibrys

Colibrys is the world-leading supplier of Micro- Electro-Mechanical components and Microsystems (MEMS) for Motion Sensing applications. The company provides unique sensing and actuating solutions for high value-added harsh-environment (defense, aerospace & energy) and industrial (instrumentation, test & measurement, telecommunication) applications.

Motion sensing

Development, manufacture and sale of proprietary **standard** high performance embedded MEMS components and sub-systems for applications

- Inertial Sensing
- Vibration Sensing
- Seismic Sensing
- Accelerometer and Gyro
- Variable Capacitance Sensors
- Digital Sensors (MEMS Geophones)

Contract services

Implementation (development and manufacture) of innovative **customized** embedded MEMS components and sub-systems for market leading companies.

Phone: +41 32 720-5811
Fax: +41 32 720-5705
Web: www.colibris.com
E-mail: sales@colibrys.com
Booth: 206

EADS Astrium

EADS Astrium is a truly global space industry leader with extensive prime contractorship experience and an international reputation for excellence across all sectors of the space business – satellite systems, payloads and equipment for a vast range of civil and military applications, a complete range of launch capabilities, orbital systems and manned space activities, and a wide portfolio of innovative space-based services.

EADS Astrium is a wholly-owned subsidiary of EADS (European Aeronautic Defence and Space Company). In 2006 EADS Astrium posted a turnover of 3.2 billion. The company employs over 11'000 people in France, Germany, the UK, Spain and the Netherlands.

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Fax: +33 1 77 75 80 08
Web: www.astrium.eads.net
Booth: 116-117

EFG GmbH

Manufacturer of X-ray systems for the crystal structure determination with more than 45 years of experience, in particular systems for the sorting of quartz blanks. Round, rectangular, from wafer mapping down to sorting of strip. Standard systems are for AT or SC-Cut, other orientation on demand.

Crystal alignment tools for preparing the cutting process. Orientation measurements for other materials, e.g. Langasite, Sapphire, Silicon Carbide, Silicon. Frequency sorter, blank feeding systems. Customer focused designs and products.

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Contact: sales@efg-berlin.de
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European Journal of Navigation

The European Journal of Navigation (EJN) is a journal for the professional navigation industry within Europe. The journal is an initiative of a number of European Navigation Institutes (DGON, ION-CH, NIN, NNF, OVN and PNF) and is published by Reed Business bv. Five issues are published per year, containing groundbreaking interviews, the latest news about business and products and unveiling company views. There are also reviews of interesting applications, articles written from a scientific perspective and features addressing policy and strategy, as well as a regular overview of activities within the navigation industry. Each issue contains news from the Institutes.

Web: www.gim-international.com
E-mail: Marjan.de.Vries@reedbusiness.nl
Booth: 306

European Satellite Services Provider (ESSP)

The European Satellite Services Provider (ESSP) was founded in April 2001. Its shareholders (members) are seven key European air navigation service providers (ANSPs). They are members of the EGNOS Operators and Infrastructure Group (EOIG), and signatories to the ESA ARTES-9 programme. These Air Navigation Service Providers are AENA (Spain), DFS (Germany), DNSA (France), ENAV (Italy), NATS (UK), NAV (Portugal) and Skyguide (Switzerland). ESSP's mission is to become the EGNOS System Operator and Safety of Life Service Provider. ESSP began initial operations of EGNOS in Jul 2005. Through its members, ESSP's has unique knowledge on the aviation use of market. The nature of EGNOS - *a safety-critical satellite navigation system composed of geographical disseminated elements* – dictated the creation of a centralised coordination company.

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Web: www.essp.be
Contact: melanie.vritschan@essp.be – *Communication Officer*
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Booth: 301

FSRM

The FSRM - Swiss Foundation for Research in Microtechnology - was established in 1978 with the mission to promote Microtechnology and its applications. The Foundation develops activities in two main streams: Continuing education and management/organisation of scientific events and projects. The FSRM has an experience of over 15 years in providing training opportunities for a wide targeted audience in order to help the dissemination of research results and the transfer of new technologies to industry. In particular, the FSRM leads a European-wide programme for training in micro and nanotechnology which includes most of the European leading institutes as course providers. Currently, the FSRM offers over 170 short courses in Switzerland and in Europe.

The FSRM has a highly experienced team for organising tailor-made scientific events. A particularly notable event in 2007 is the combining of three large-scale, established international conferences into one unique event: TimeNav'07 in Geneva.

Web: www.fsrn.ch
E-mail: fsrn@fsrn.ch
Booth: 306

Furgo Group

OmniSTAR BV and Furgo SeaSTAR AS are members of the Furgo Group. Furgo has 10'000 employees in 40 countries mapping the Earth. Furgo provides worldwide high performance Differential GNSS services via satellite. Furgo has 105 GPS and 20 Glonass reference stations and 12 Satellite correction beams.

OmniSTAR signals are sold on the land market to farmers, GIS users and Aerial survey. Furgo SeaSTAR services are sold to the marine dynamic positioning market.

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www.omnistar.nl
www.seastar.co.uk
Booth: 126

Galileo Services

Galileo Services is a non-making profit organisation of Industries covering GNSS Applications and Services. Comprising today 28 key companies from Europe, North America and Asia, the association aims at promoting the use of Galileo in equipments, applications and services, and hence at developing the downstream market to fully exploit all possible business potentials. Galileo Services mission comprises market development, R&D and demonstrations, and assistance to the Galileo programme implementation. The Association is open to any organisation interested in Galileo downstream development from EU and non-EU countries.

Web: www.galileo-services.org
Contact: marie-laure.mathieu@galileo-services.org
Booth: 127 - 128

GEMMA Quartz and Crystals

For more than 30 years, GEMMA has been manufacturing Top Quality Synthesis Quartz to meet high precision requirements of military, special and telecommunication markets.

Because its reliability to reproduce identical high quality cycles, its expertise in selecting the appropriate material, it's involvement in R & D and its capability to meet specific requests, GEMMA Quartz and Crystal is today acknowledged as a world-class player by the industrial and scientist community.

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Web: www.gemma-quartz.com
Contact: contact@gemma-quartz.com
Booth: 120

General Lighthouse Authorities

The three General Lighthouse Authorities of the United Kingdom and Ireland are Trinity House, the Northern Lighthouse Board and the Commissioners of Irish Lights. Together they have the Statutory Responsibility for the provision of marine Aids to Navigation around the British Isles. The GLAs have a joint mission statement - "To deliver a reliable, efficient and cost effective AtoN service for the benefit and safety of all mariners".

Web: www.trinityhouse.co.uk
Booth: 203

Grand Toulouse

With more than 12'000 jobs, Midi-Pyrenees Region is the European leader in design and manufacture of space and applications. Centred around the CNES (French Space Agency) and the two prime contractors: Thales Alenia Space, EADS Astrium, over 150 suppliers and a dense network of engineering schools, universities and research laboratories are based here. The headquarters of the Galileo concession will be set up in Toulouse, the birthplace of Egnos, as a logical acknowledgment of this region's attributes. ENC-GNSS/SFTF 2008 will be organized in Midi-Pyrenees, from April 21st to 26th in Toulouse.

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Booth: Promotional Area A

GPS World

GPS World is the most complete source for business, technical, product, news and information about the GPS Galileo and GLONASS markets in all media. Website navigation and email news letter are segmented by vertical market so you get just the information you need for your specific application. GPS World's blended media platform is the industry's only searchable application-specific knowledge base of GPS and related technologies that's mapped to the market and the needs of the industry's core purchasing audience.

Web: www.gpsworld.com
Contact: info@gpsworld.com
Booth: 105

GSA : European GNSS Supervisory Authority

Because of the strategic nature of the European satellite positioning and navigation programmes and the need to ensure that public interests are represented, the European GNSS Supervisory Authority, or 'GSA' was established by the European Council. In January 2007, GSA, a Community Agency, took over the tasks of the Galileo Joint Undertaking, which was wound up at the end of 2006.

GSA was entrusted with a range of tasks, including:

- Manage the European satellite navigation programmes, control the use of funds, and manage the community R&D activities;
- Be responsible for matters related to the right to use the frequencies necessary for the operation of the systems, the certification of their components, and their safety and security;
- Own the assets created or developed under the Galileo and EGNOS programmes.

Through these activities and others, GSA is dedicated to ensuring the success of the European satellite navigation programmes, in cooperation with its public and private stakeholders.

Web: <http://www.gsa.europa.eu>
E-mail: GSA-info@ec.europa.eu
Booth: 211 – 212

IEEE

The IEEE, a non-profit organisation, is the world's largest technical professional society. It has 380'000 members, including more than 80'000 student members, in 150 countries. It publishes 132 journals, transactions and magazines. It sponsors and cosponsors more than 500 conferences a year, and publishes 900 standards. The IEEE Xplore digital library contains 1.6 million articles. More than six million articles are downloaded from it every month. See www.iee.org/leeeexplore

To join the IEEE, please visit www.ieee.org/join

The IEEE Ultrasonics, Ferroelectrics and Frequency Control Society (UFFC-S) sponsors the IEEE Frequency Control Symposium, the premier conference in its field. To learn more about the frequency control activities of the UFFC-S, please visit www.iee-uff.org7fc.

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Inside GNSS

Inside GNSS is a business-to-business publication covering the policies, programs, engineering, and most challenging applicators of GPS, Galileo, GLONASS and related technologies. The magazine goes to a carefully targeted international audience of 40'000 product designers as well as military, government and corporate procurement professionals. The magazine's managing director, Glen Gibbons, was the founding editor of *GPS World*, *GPS World Newsletter*, and, *Galileo's World* as well as a number of other geospatial publications.

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Booth: 118

ION US

The Institute of Navigation (ION) is a professional society dedicated to the advancement of the art and science of navigation. Founded in 1945, ION serves a diverse worldwide membership including persons interested in air, space, marine, and land navigation. Corporate members include corporations, government agencies, technical institutions, and universities.

ION is widely recognized for the quality of its three annual technical conferences. ION GNSS is the industry's largest GNSS event with over 1'800 attendees, 325 technical papers and 100 exhibiting organisations. ION GNSS 2007 will be held in Fort Worth, Texas from 25-28 September 2007.

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Booth: 209

Midi-Pyrenees Expansion

Midi-Pyrenees Expansion, the regional development agency, offers free consulting for your corporate location projects in the Midi-Pyrenees region. The agency is involved in implementing the region's economic policies. Its purpose is to contribute to the development of businesses and jobs throughout the regional territory, in cooperation with its partner entities. As representatives of a high-tech region, we are available to discuss your French development plans at any time during the show.

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Booth: Promotional Area A

Morion, Inc.

Morion, Inc. is a leading designer and manufacturer of standard and customized Quartz Frequency Control Products. Backed by over 75 years of experience Morion provides markets of telecom (wireline, wireless and satellite), test & measurement, navigation & positioning, search & rescue, and broadcasting equipment with high-quality and cost effective solutions : oscillators, multi-pole filters, precision crystals and high accuracy blanks (AT, SC, IT, etc). Morion is an ISO9001-2000 certified company, which possesses all critical production processes and technologies.

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Morion, Frequency Electronics, Inc.

Frequency Electronics, Inc. (FEI) is a world leader in the design, development and manufacture of high precision timing, frequency control and synchronization products for space and terrestrial applications. Frequency's products are used in commercial, government and military systems, including satellite payloads, missiles, UAVs, aircraft, GPS, secure radios, SCADA, energy exploration and wireline and wireless communication networks. FEI's Subsidiaries and Affiliates: Gillam-FEI provides expertise in wireline network synchronization and SCADA; FEI-Zyfer provides GPS and secure timing ("SAASM") capabilities for critical military and commercial applications; FEI-Asia provides cost effective manufacturing and distribution channels. Morion Inc. supplies high-quality, cost effective quartz oscillators and components.

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Web: www.frequencyelectronics.com
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NavPos Systems GmbH

NavPos Systems is an independent company with focus on systems and software development for Global Navigation Satellite Systems (GPS, Glonass, Galileo), their Satellite Based Augmentation Systems (SBAS: EGNOSWAAS, MSAS) and Ground Based Augmentation Systems (GBAS).

We are developing systems and software for simulation, monitoring and data processing.

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Web: www.navpos.de/navpos/
Booth: 308

Nofech Electronics Ltd.

Nofech specializes in manufacturing high precision SC-Cut as well as IT-Cut Crystal Resonators for superior performance OCXO's under stringent environmental conditions.

Nofech "Gold Line products" launched last year offers SC crystals with very Low Aging, Phase Noise and G_Sensitivity, High frequencies 100-200 Mhz SC Crystal for Radar and other Military systems and High Q 5Mhz-13Mhz SC Crystals.

Phone: 972 2 6510082
Fax: 972 2 6510292
Web: www.nofech.co.il
Booth: 210

NovAtel, Inc.

In addition to its OEM product line, NovAtel is involved in development work on the European Space Agency's Galileo system, including development of the reference receiver for the Galileo ground control system. NovAtel has also developed the Galileo Test Receiver which tracks Galileo L1/E5a and E5b and also GPS L1/L2 and L5. In addition, NovAtel is commercially marketing the licensed EuroPak-15a dual mode Galileo L1/E5a and GPS L1/L5 receiver for early test and evaluation of GIOVE-A and IOV signals. NovAtel also supplies GPS navigational receivers to national satellite-based augmentation systems (SBAS) in the U.S., Europe, Japan, China and India.

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Web: www.novatel.com
Booth: 101

NPL – Location and Timing Knowledge Transfer Network

The Location and Timing KTN is a managed network of over 800 people in 450 organisations comprising researchers, suppliers and users in all location and timing technologies. The KTN works with industry and researchers to create wealth by exploiting knowledge and connecting companies to emerging technologies, international research and funding sources.

The KTN is a point of contact for the location and timing community, a forum for our members and an authoritative voice advising government.

Web: http://lat.globalwatchonline.com/epicentric_portal/site/lat/
Booth: 123

Roditi International Corporation Limited

The Roditi International Corporation, founded in 1935, is a leading distributor in Europe of high-quality piezoelectric and optical grade quartz crystals, processing equipment, optical components and electro-optic materials.

Our products portfolio satisfies current needs – from AT-cut, SC-Cut, HFF, SMD and Strip blanks, to Hermetic Seals, covers, quartz (natural and cultured), high-tech production ATE systems and much more. We also offer materials such as langasite, gallium orthophosphate, lithium niobate and lithium tantalite in boule and wafer form. We currently supply 3" to 4" wafers in quartz, lithium niobate, lithium tantalite and langasite wafers and many other crystals for various applications.

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Optonor AS

Optonor AS is located in Trondheim, Norway, and cooperates closely with the university NTNU and the research company Sintef. Optonor develops, produces and delivers laser based instrumentation for vibration analysis, static deflection analysis and surface profiling of small and larger objects. The MicroMap 5010 / MEMSMap 510 can perform vibration measurements up to 240 Mhz standard and up to 500 Mhz or higher non standard. A 3 D measurements option is available, and object size is from a few micrometers and up. Optonor has delivered systems to nearly 100 industry companies, universities and research groups in Europe, Asia and USA.

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Booth: 108

Pendulum Instruments

Pendulum Instruments is the world's expert in time and frequency calibration, measurement and analysis, with over 50 years of experience in test and measurement instrumentation. An industry leader serving the electronics, communications, metrology, frequency standards, synchronization products, and wireless test equipment. Pendulum Instruments is a global company, with offices in Sweden, US, Russia and China, sales channels in 80 countries and service in all continents. The products have received several Honourable Mentions in the Test & Measurement World's "Best in Test" awards, and Pendulum Instruments was elected "Electronic Company of the Year" in Sweden 2004.

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Saunders & Associates Inc.

Saunders and Associates has been a leading supplier of products to the quartz crystal resonator market for the past 37 years. Products include measurement equipment to characterize discreet resonators and packaged oscillators both at room temperature and over a user specified temperature range. Production equipment includes Base Platers, Final Frequency Adjustment Systems, Blank Sorters, Final Frequency Sorting Systems and Pick and Place Systems. Temperature systems are also available to test a variety of other components (leaded and SMD) using temperature chambers manufactured by S&A, Inc.

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Booth: 124

Septentrio

Septentrio Satellite Navigation NV designs, manufactures and sells high-end OEM GNSS receivers for demanding professional navigation, positioning and timing applications. Septentrio's in-house technology includes all the critical building blocks (including ASICs and software) for developing excellent satellite navigation receivers. Its receivers work with all GNSS signals (GPS, Galileo, Glonass and SBAS signals). Septentrio is also developing GNSS/IMU integrated solutions.

As an OEM manufacturer, Septentrio works closely with its customers to optimize the performance and fit of its receivers in the customer applications. Furthermore, Septentrio is the leading supplier of receivers in support of the Galileo program.

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Booth: 202

Spirent Communications

Spirent is the world's leading provider of GNSS test and simulation systems. Our specialist team has been involved in every aspect of satellite and navigation test from the earliest days of GPS simulation to current work on Galileo simulation.

With a broad range of clients across 30 countries and over 50 governmental agencies, Spirent delivers navigation and positioning testing equipment and services to civil aviation authorities, space agencies, the military and test facilities; along with companies developing products for the wireless, aviation and automotive markets. Spirent is the choice of major manufacturers, integrators, test facilities and space agencies worldwide.

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Web: www.spirent.com
Booth: 204-205

swisstopo

swisstopo is the competence centre of the Swiss Confederation responsible for geographical reference data and all products derived from them. swisstopo's National Map series also enjoys international recognition. The Federal Office of Topography (swisstopo), located in Wabern near Bern, is a modern production organisation with nearly 270 employees. swisstopo creates and maintains the basic geodetic, topographic, and geological data for the whole of Switzerland publishes the national map series at a variety of scales and keeps them up to date.

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Booth: Promotional Area B

Symmetricom

Symmetricom is the market leader in time, frequency and synchronization solutions. We offer a broad range of time & frequency products with customization capabilities that meet the ever changing needs of government corporations and industries such as metrology, utility space, industrial space and aerospace. These solutions are backed up by comprehensive customer support a strong R&D team and efficient manufacturing operations.

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T4Science

Founded in 2006 in Neuchâtel, Switzerland, T4Science is a leading designer and manufacturer of a full range of advanced, cost-effective and high-performance maser clock solutions. Its products are used in a wide variety of scientific applications and in the time and frequency industry.

The company acquired the active maser technology and product from the Observatory of Neuchâtel through a joint-venture of seasoned industry experts to capture the fast-growing maser clock market. It's a combined partnership of European & Swiss companies, all serving the time and frequency industry.

Web: www.t4science.coc
E-mail: sales@t4science.com
Booth: 103

Temex Time

Founded in 1995 in Neuchâtel, Switzerland, Temex Time designs, manufactures and markets a full range of advanced, low-cost rubidium and crystal sources, smart GPS-synchronized rubidium and crystal clocks, and high precision GPS references and test instruments. Temex Time products are used in wide range of high-performance applications, including telecom, defence, navigation, instruments, broadcasting, and space. The company is recognized leader in the industries it serves and distributes its products globally through a network of representatives in Asia, Europe, and in the United States.

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Booth: 102

Time & Frequency Solutions

Time and Frequency Solutions designs and manufactures precision time and frequency systems for global markets and applications: Utilities, Transportation, Military & Aerospace, Telecommunications, Computer & Network Synchronisation, and Professional & Scientific.

The GPS time signal features highly in our product range, providing a high precision trusted time source. All our products are designed, developed, tested and manufactured In-house ensuring that we maintain excellent quality standards. Our timing industry expertise spans thirty years, providing a solid basis for a successful, thriving business. Flexible modular solutions are a speciality, completely addressing individual customer's needs.

Phone: +44 1376 514114
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Web: www.timefreq.com
Booth: 201

TimeTech GmbH

TimeTech GmbH's activities can be divided into "space activities" and "development, production of test and measurement equipment".

Product range covers units for the generation ultra-stable time and frequency signals, monitoring, control and performance enhancement of reference clock ensembles, distribution of microwave and pulse signals in labs and ground stations and Two-Way-Time Transfer (TWSTFT) modems for distant clock comparisons. Space activities include design and manufacturing of products for the space segment and for the ground segment. The company is involved in projects about next-generation frequency standards like optical clocks and sapphire oscillators, software-based receivers and fundamental physics experiments.

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Toptica Photonics AG

Toptica is a leading manufacturer of femtosecond fiber and diode lasers addressing spectroscopy, frequency reference and metrology applications using cold atom and ion traps. The laser systems comprise tunable narrow line width diode lasers from deep UV to far IR (205 to 2800 nm), single-mode with record values in power, beam quality and pulse frequency. The femto- and picosecond Erbium or Ytterbium doped fiber lasers cover a spectrum from 480 to 2100 nm and are particularly suited for biophotonics, metrology, spectroscopy or seeding of micromachining lasers.

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