



13-14 June 2023



Toulouse

European Test and Telemetry Conference

Robust & sustainable innovative testing technologies

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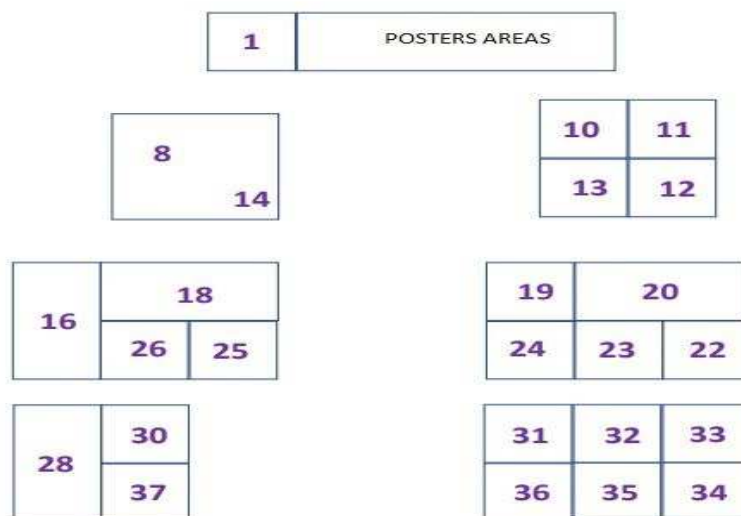
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PLAN ETTC 2023





Association Aéronautique
et Astronautique de France

ORGANIZER

Created in 1972, 3AF is the French aerospace society. Its mission is to advance the aerospace profession, stimulate progress in the state of the art of aerospace science and technology and represent the profession in public policy discussions.

3AF is a forum for knowledge exchange

The Technical Committees reunite aerospace experts so as to share experiences, and develop new orientations for research and development activities.

3AF organizes international renowned symposiums to provide forums for international discussion and exchange of information about leading edge research and development activities. These conferences allow cooperation opportunities.

3AF is the only French aerospace society recognized by the international aerospace federation. 3AF is founder member of the CEAS (Council of European Aerospace Societies)

3AF Regional Groups unite local actors of the aerospace industry and research organizations, and organize conferences, debates, visits. They also promote the aerospace profession to the public.

The Student Committee promotes the aerospace profession among students. In order to enhance the work of its members.

3AF gives awards to some of its experts for their contribution to the aerospace community. Strategic and scientific publications for experts and political actors, symposium proceedings, position papers, technological articles and interviews....

3AF provides a wealth of specific publications to its members which enrich their knowledge and vision of the aerospace field.

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ORGANIZER –

The SEE is a non profit scientific association in the fields of Electricity, Electronics, Communication and Information processing since 1883.

The SEE activity includes 19 Technical Groups and 14 Regional Committees. Their purpose is the promotion and science and technology in their domains, and also the developpement of links between the research and academic world and industry. The SEE rewards the significant contributions to science and technology by distinctions, medals, and awards.

The SEE organises events (lectures, workshops, symposia and international conferences) and publishes proceedings.

The SEE is the editor of a variety of publications including two periodicals:

The REE "la Revue de l'Electricité et de l'Electronique" and the 3EI "Enseigner l'Electrotechnique et l'Electronique Industrielle"

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ACROAMATICS

TELEMETRY SYSTEMS

A DELTA INFORMATION SYSTEMS COMPANY

STAND 12

Main Product lines : Ground telemetry data processing systems

Acroamatics is a recognized industry leader in providing high-quality, state-of-the-art aerospace telemetry products for flight test, missile, range safety, launch support and satellite command and control applications.

They offer End-to-End Next Generation Solutions: Data Distribution, Telemetry Data Processing & Display, Simulation & Test, as well as Data Recording.

Along with GDP, these companies have introduced the industry to TMoIP, a correlating best source selector, 4-input diversity combiners and more. The newest tech includes a fully functional Range Modernization solution with options to move to virtual solutions.

Above all, **Acroamatics** recognizes that no standard product can meet the needs of all users, so we work with our customers to provide modified products when necessary (COTS and modified COTS). Additionally, we provide expertise in understanding telemetry requirements, technical assistance in developing specifications, modifications of standard products, and new product development for unique telemetry applications.

Our commitment to excellence in high-performance products, system design engineering and flexible customer support will enable the telemetry system integrator to meet the challenges of ground station implementation.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems..

Local Representative



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AIRBUS

STAND 31

Airbus is an international reference in the aerospace sector. We design, manufacture and deliver industry-leading commercial aircraft, helicopters, military transports, satellites and launch vehicles, as well as providing data services, navigation, secure communications, urban mobility and other solutions for customers on a global scale. With a forward-looking strategy based on cutting-edge technologies, digital and scientific excellence, we aim for a better-connected, safer and more prosperous world.

Airbus commercial aircraft diverse product line includes everything from passenger jetliners to freighters and private jets. With each of the company's aircraft family boasting cutting-edge design, superior comfort and unparalleled efficiency, they are setting the standard for the modern aviation industry.

Ranging in size from 100-seat jetliners to the double-deck A380 that is capable of transporting 600 passengers, the total versatility of Airbus' product line allows it to offer a variety of tailored solutions to meet the needs of any airline and their market – from low-cost and full-service carriers to the air freight and VIP transport segments – while continuously ensuring the very best in efficiency and experience.

The mission of Airbus' Flight & Integration Test Centre consists in ensuring a safe and effective certification flight test program, in driving maturity and reducing cost and cycle. To accomplish these objectives, the Centre is involved in all program phases including feasibility studies, conceptualization, definition, development and post entry-into-service.

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STAND 8

Founded in 1999, Alliantech specializes in providing sensors, data acquisition systems, and environmental testing solutions. With the extensive expertise of our founders and employees, our company has earned the trust of numerous supplier partners and clients.

To enhance our offerings and expand our technical capabilities in product development and service provision, Alliantech has established a dedicated technical department. This department encompasses several key activities:

Production of customized instrumentation cables for measurement purposes.

Mechanical and electrical development and integration for turnkey solutions.

Training, feasibility studies, and rental services.

Post-sales support and calibration following factory or ISO 17025 procedures.

Since 2016, the development of intelligent connected sensors on the SigFox and LoRa networks.

Our technical expertise allows us to provide our clients with exclusive distribution of our partner products, along with comprehensive pre-sales and post-sales support and advice throughout the study, testing, and production phases.

These solutions represent the culmination of our company's vast experience and know-how. Our long-standing partners stand by our side, enabling us to focus on what truly matters. We understand that each client is unique, and every project is different, which is why our offerings always adapt to your specific needs.

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STAND 12

Main Product lines : Airborne storage and high speed data acquisition

Ampex specializes in delivering rugged, tailorable hardware platforms for data acquisition and processing. Our systems can handle any data type at high speeds and with large storage capacities. Our engineering team works with clients to shape requirements and deliver the best hardware for size, weight, power, and cost. We also offer secure solutions for Data-at-Rest or in transit. Our open architecture platform can host third-party software or AI/ML tools for data analysis at the edge.

With over 75 years of experience and affordable solutions at every level, we can provide a true force multiplier with minimal integration efforts. Our team includes Subject Matter Experts with top-secret security clearances to aid in the integration process in the field. As a result, we offer exceptional support and the lowest-risk combination of hardware and software solutions for capturing, processing, storing, hosting, and securing high-value data for defense and beyond.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems.

Local Representative



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STAND 22

La société ATCOM Télémétrie spécialisée dans la transmission de données (filaire, infra-rouge, radio, induction) conçoit et réalise des équipements de mesure par télémétrie pour pièces tournantes.

Applications :

- Mesure de vibrations sur les pales du rotor ou aubes de turbine
- Mesure de température de pression sur aubes de turbine

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STAND 26

We are ATMOSPHERE team, a company specialized in satellite communications and aerial connectivity for Flight Testing. We deliver connectivity solutions for whatever flies: aircraft, rotorcraft, UAVs, gliders, parachutes, balloons, HAPS, ...

The answers you might be looking for at ETTC 2023 could be right below!!

Do you face any of these problems?

- 1- Your simplex communication system does not fully answer your field connectivity needs?
- 2- You want to reduce field operations costs? Fancy to get off-the-shelf, one-stop-shop solutions?
- 3- You are looking for more flexibility in the deployment, configuration and use of your telemetry systems?
- 4- You are range-limited with classical line of sight telemetry systems?

Then you will be interested by the benefits provided by our PLANET Flight Test Instrumentation products and services:

- 1- We offer full-duplex telemetry systems which allow you to share information between air and ground systems or people
– enabling efficient collaborative flight test missions. Our mobile satellite terminals deliver low-latency IP connectivity with Midband throughput (Iridium Certus™ 100). For short range operations, high throughput can be offered with industrial 5G connectivity.
- 2- We deliver turnkey solutions including hardware, software and service including satellite airtime and SaaS servers. We can even embark your equipment under test on our test UAVs!
- 3- We have full-stack control of our PLANET Flight Test Instrument systems, and can answer to fast deployment requirements, or any custom integration demand.
- 4- We provide truly Global Line of Sight Connectivity based on Iridium Certus™ satellite network.
Our main Flight Test clients are Airbus, Dassault, Honeywell, Thales, Safran, DGA, EUFAR, CNES.

For 15 years we have sharpened our expertise in the aviation industry by participating to multiple flight test campaign:

- Scientific / research missions such as the Air Traffic Management Demonstrator 1 project with NASA, Honeywell, Boeing and United Airlines. We were rewarded by the NASA Group Achievement Award in 2018.
- Icing certification campaigns (Airbus, Airbus Helicopters, Dassault).
- BLVOS UAV and Balloons operations.

Come to our booth at ETTC 2023 to discover PLANET Flight Test Instrumentation product line and discuss with our experts.

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STAND 28

BDSI is an international supplier of products and systems to the aerospace defense and industrial markets. Thru partnership with our manufacturers, we provide technological solutions in support of applications such as Flight test, satellite communications, Airborne and shipboard systems, Telemetry ground antenna systems, flight termination systems, and Telemetry systems.

Our products, coupled with an unparalleled customer service and support are distributed throughout Europe, Asia, Middle East and Africa

We are proud to partner with group of companies that excel in their fields and provide unparalleled customer support such as: **Quasonix, Haigh-Farr, Ulyssix, Quad-Tron, Krohn -Hite, and more.**

BDSI est un fournisseur international de produits et de systèmes destinés aux marchés de la défense, l'aéronautique et de l'industrie. Grâce à un étroit partenariat avec nos fabricants, nous fournissons des solutions technologiques à l'appui d'applications telles que les essais en vol, les communications par satellite, les systèmes aéroportés et embarqués, les systèmes d'antenne au sol de télémétrie, les systèmes de terminaison de vol et les systèmes de télémétrie.

Nos produits, couplés à un service client et une assistance inégalés, sont distribués dans toute l'Europe, l'Asie, le Moyen-Orient et l'Afrique.

Nous sommes fiers de nous associer à un groupe d'entreprises qui excellent dans leurs domaines et fournissent un support client inégalé tels que : Quasonix, Haigh-Farr, Ulyssix, Quad-Tron, Krohn-Hite, et plus encore.

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STAND 20

For decades, Curtiss-Wright has been a trusted, proven leader in designing and manufacturing cutting-edge commercial off-the-shelf (COTS) FTI products, including data acquisition units (DAU), switches, High Speed cameras and recorders, transmitters, FTRs, Transponders, Transceivers and ground station systems. Curtiss-Wright's modular product approach, combined with its ability to customize offerings where required, enables the rapid delivery of complete system solutions. It also ensures that systems can be quickly modified as test programs evolve. By providing total system solutions, Curtiss-Wright helps eliminate integration issues and reduces design risk so that customers can meet their unique program requirements on schedule and on budget.

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A DELTA INFORMATION SYSTEMS COMPANY

STAND 12

Main Product lines : Rugged and ground video codec and video processing units

Delta Digital Video is a high-performance video compression product line that includes products designed for airborne, ground-mobile, and network-centric applications. These products are based on industry standards such as SMPTE, DVI/HDMI, NTSC/PAL, and VESA video formats, as well as H.264, H.265, MPEG-2, and JPEG2000 video compression. In addition, the product line also includes support for the MPEG-2 transport stream protocol, RTP/UDP streaming, synchronized audio and metadata, and the government's motion imagery standards profiles. Utilizing state-of-the-art multimedia processors, our products provide the flexibility to deliver high-quality video over wide-band or "disadvantaged" links and networks. In addition, our strict adherence to digital video and communications standards ensures interoperability with new and existing multimedia infrastructures.

In addition to our video encoders and decoders, we also offer to scan conversion products that convert standard and non-standard raster or stroke video signals to support mixing, recording, display, or transmission for new and legacy video formats. Our scan converter line has evolved from a standard resolution monochrome capability to support scaling and mixing both standard and high-definition analog and digital video formats. In addition, implementing an advanced scaling engine, high-speed digital video processing, and support for industry-standard video formats has enabled broader applications for this diverse product line.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems.

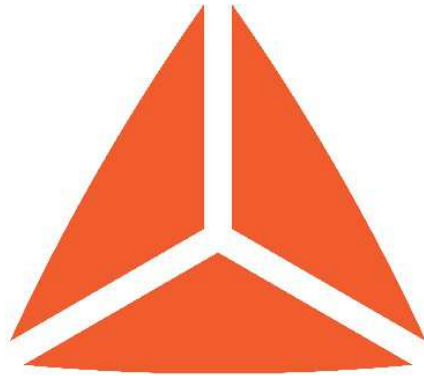
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DEWESoft®

STAND 13

DEWESoft FRANCE est la filiale française de DEWESoft®, acteur mondial grandissant du marché de l'acquisition de données multi-physiques & vidéo, avec des systèmes de mesures de 1 à plus de 1000 voies-en utilisation embarquée ou sur bancs d'essais-

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STAND 34

dSPACE is a leading provider of simulation and validation solutions worldwide for developing electrically powered, networked, and autonomous vehicles.

Our end-to-end solutions are used particularly by transportation industry to test the software and hardware components for their new vehicles all along the development cycle, from very early stages to start of production.

Not only is dSPACE a sought-after partner in automotive vehicle development, aerospace engineers also rely on our know-how and tools.

Our portfolio ranges from end-to-end solutions for simulation and validation, real time testing of computers, power level tests, and further to engineering and consulting services as well as training and support.

dSPACE has in particular a comprehensive tool suite for the development of electrical systems, like: BMS, eDRIVE control, electrical system modelling and simulation, very fast real time (with FPGA) to match very fast eDRIVE dynamics, high power load emulation,...

With approximately 2,000 employees worldwide, dSPACE is headquartered in Paderborn, Germany, has three project centers in Germany, and serves customers through regional dSPACE companies in the USA, the UK, France, Japan, China, Croatia, and South Korea.

At ETTC we will present our test bench Hardware used for the validation of Computers, and also real time systems enabling you to prototype very easily your new designs directly from the model.

We will also bring our virtual test platform, and will show how to carry out tests at power level with a new technology of real time dynamic power loads.

We hope to see you on our booth and have the pleasure show to you our seamless toolchain to develop your next embedded mechatronics system.

More info at: <https://www.dspace.com/en/pub/home/applicationfields/ind-appl/aerospace.cfm>

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STAND 14

DTS is redefining what's possible in aerospace and in-flight testing.

Diversified Technical Systems (DTS) is a leading manufacturer of miniature, autonomous data acquisition units (DAU) for aerospace and flight testing. DTS solutions offer three unique advantages: (1) SWaP-optimized for Size, Weight, and Power (2) Rugged for high shock testing and extreme environmental conditions (3) COTS availability with standard lead times.

DTS standalone measurement solutions make it easy to measure critical parameters including acceleration, vibration, shock, and temperature in situ. The miniature rapid deployable data acquisition units are designed to embed on or in the test article near the sensors. This distributed solution reduces test set-up time by eliminating complicated sensor cable runs, it improves data quality and makes it easy to add sensor channels at any time. DTS technical support experts are available worldwide 24/7/365.

Applications include : eVTOL, rotorcraft, UAV, modification & compatibility testing, destructive testing, commercial launch, captive carry, and hypersonic vehicles. www.dtsweb.com

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STAND 8

Dytran Instruments Inc. is a leading provider of sensors, accelerometers, and associated electronics for measuring dynamic force, pressure, and vibration. The company offers an extensive product line and full in-house customization capabilities to provide customers with a one-stop shop for their test and measurement needs. Their broad sensor portfolio includes a complete line of single-axis and triaxial IEPE accelerometers, ultra-high temperature charge mode sensors, shock sensors, variable capacitance MEMS sensors, and digital bus-based sensors. Dytran is proud to support engineers in the aerospace, military, energy, test & measurement, and transportation industries.

Dytran has served the test and measurement community for more than 40 years and has developed a reputation as a trusted manufacturer of high-quality dynamic testing solutions. Dytran is committed to providing exceptional customer service that exceeds expectations and delivers solutions for challenging applications.

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STAND 8

EIDEL is as a leading Norwegian engineering company specializing in the creation of state-of-the-art electronic systems catering to space exploration, defense applications, and utilities. With a steadfast dedication to resolving customer challenges in areas like remote sensing, telemetry, remote control, and encryption, EIDEL thrives in delivering inventive solutions within demanding and isolated environments. EIDEL's expertise revolves around delivering precise measurements and ensuring secure communication, even in the most severe and distant locations.

Moreover, EIDEL offers Space Mission Design services, where our proficient Space System Engineers analyze every aspect of a mission's lifecycle. This encompasses grasping its purpose, scope, and destination, making informed decisions regarding launch vehicles, satellite platforms, payloads, launch dates, orbits and thoroughly mapping out all planned maneuvers and operations. This comprehensive analysis furnishes vital data for the actual design of satellites and the development of mission control systems and ground-based communication stations.

EIDEL remains committed to excellence, consistently addressing the unique requirements of our clients by providing advanced electronic systems and mission analysis tailored precisely to their needs.

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STAND 19

ETEP is a French company active for more than 44 years in the field of data acquisition, recording and analysis in extreme environmental conditions.

ETEP designs, develops and manufactures data acquisition and recording systems for instrumentation, transmission and military or non-military reconnaissance applications. A distinction is made between the areas of application AIRBORNE (= ultra-robust & compact) and GROUND:

For AIRBORNE Application, various range of product exist like DTMUX NANO, DTMUX NANOX, DTMUX COD-R: Modular, independently operating data acquisition systems with integrated logging and telemetry capability. These are Versatile / mission recorder with encryption and self-destruct mechanism for a variety of signals and applications. Crash Recorder like DTMUX sentinel is also available.

For GROUND operation, ETEP have developed Acquisition stations for telemetry data (real time and post-processing).

ETEP is economically and legally independent: all relevant decisions such as product change measures, new designs, etc. can be implemented quickly.

ETEP have In-house development and production, including test lab. ETEP is certified ISO 9001 v2015 and should be certified AS/EN 9100 in 2023.

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STAND 11

Main Product lines : Airborne and ground telemetry and Storage; Data Acquisition; RF products; TMoIP; Video Codec

With more than 30 years of telemetry experience, **EXPAN** represents leading US/UK/Turkish/Taiwan companies in France and other European countries :

[GDP](#), [DDV](#), [Lumistar](#), [Telspan](#), [Tualcom](#), [Argon](#), [Ampex](#), [Wideband](#), [Acroamatics](#), [TCS](#), [Adivic](#), [Apogee labs](#), [Apollotek](#),

EXPAN provides one of the largest product range in Europe in the Airborne and Ground Telemetry and data acquisition market.

Main products :

- Airborne PCM, network, video acquisition units and recorders
- Airborne RF Transmitters, Receivers, Transceivers
- Airborne nano computers
- Airborne PTP switches and ch7/ch10 gateways
- Airborne/Ground Mux-Demux
- Ground RF and IF receivers with combiners
- TMoIP Ethernet to PCM gateways
- Best Source Selector
- Ground telemetry recorders RF, IF, PCM, Ethernet...
- Bit Synchronizers / PCM Frame Synchronizers / Simulators
- Airborne and ground Video codec and scan converter
- Signal Converters (Interfacers) & Matrix switch
- BERT Link Testers.
- Tracking Antennas

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A DELTA INFORMATION SYSTEMS COMPANY

STAND 12

Main Product lines : Ground telemetry receivers, BSS and TMoIP

GDP is a recognized industry leader in providing high-quality, state-of-the-art aerospace telemetry products for flight test, missile, range safety, launch support and satellite command and control applications.

They offer End-to-End Next Generation Solutions: Data Acquisition (including receivers, bit syncs and best source selectors), Data Transport & Distribution, Telemetry Data Test, as well as Data Recording.

Along with Acroamatics, these companies have introduced the industry to TMoIP, a correlating best source selector, 4-input diversity combiners and more. The newest tech includes a fully functional Range Modernization solution with options to move to virtual solutions.

Above all, **GDP** recognizes that no standard product can meet the needs of all users, so we work with our customers to provide modified products when necessary (COTS and modified COTS). Additionally, we provide expertise in understanding telemetry requirements, technical assistance in developing specifications, modifications of standard products, and new product development for unique telemetry applications.

Our commitment to excellence in high-performance products, system design engineering and flexible customer support will enable the telemetry system integrator to meet the challenges of ground station implementation.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems..

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STAND 28

Since 1969, Haigh-Farr has been providing innovative antenna solutions from concept to creation. We specialize in mission critical antennas and support equipment for the defense, aerospace and commercial industries worldwide. Our antennas are utilized on high-performance aerospace vehicles, as well as in military airborne applications including missiles, aircraft, launch vehicles, satellites, interplanetary missions and manned space programs. We have the unique ability to leverage our years of experience creating custom solutions to develop cost-effective designs to meet our customers' specifications.

Haigh-Farr's entirely captive modeling/simulation, analysis, design, manufacturing and test capabilities enable us to provide the lowest overall cost solutions while ensuring that your stringent quality and schedule requirements are met.

Haigh-Farr has a proven track record providing reliable high performance antenna solutions from concept to creation. Please stop by our booth to discuss your application and see what unique solutions we can offer.

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STAND 25

HENSOLDT is a German champion in the Defence industry, with a leading position in the European market and a global reach.

The company offers state-of-the-art sensor solutions for defence and security applications. HENSOLDT has a highly diversified product portfolio that is continuously being expanded to cover all air, sea and land missions.

HENSOLDT in France has long experience in flight-testing (ex-NEXEYA) and cybersecurity (ex-AIRBUS DEFENCE & SPACE) supplying turnkey solutions to test centres worldwide for many years.

Our offer includes:

- Telemetry and flight-test supervision solutions
 - Complete telemetry installation for data collection on board, transmission, ground reception and processing
 - Standalone telemetry ground stations with full functions to acquire, record, simulate and analyse all telemetry data formats.
 - Real-time aircraft tracking (trajectory, cartography...), monitoring and control of system equipment (MCS)
 - Flight mission debriefing
- Flight Termination Solutions to protect people and facilities during flight testing campaigns
- Solutions for data and communication security (data encryption)

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STAND 11

Lumistar designs and manufactures **cost effective ground-station telemetry components and custom integrated systems for the Flight Test industry**. Component products include:

- RF Receivers and Down-Converters,
- Antenna Tracking Receivers, Digital IF Receivers,
- Digital Combiners,
- Bit Synchronizers, Decommutors, DACs, Data and RF Simulators,
- Spectral and Constellation Displays,
- BER readers,
- Software and Network Telemetry solutions.

Choose Lumistar for world-class Performance, Experience and Support!

Local Representative



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STAND 33

NETA Communications is a design and manufacturing company specialized especially on antenna and RF products with a broad range of applications of telemetry, GNSS, FTS, airborne and ground data link and satellite communication.

All products are designed by own R&D center and produced by NETA production facilities in Istanbul Turkey. There are more than 150 employees including many Phd and postgraduate engineers.

Within the R&D; there are antenna and RF, electronics, software and mechatronics design teams.

The main products are the antennas developed in conformal, wrap around and blade types with omni or directional characteristics.

There are also parabolic, cassegrain, slotted waveguide structures at frequencies ranging from UHF, L-band, S-band, C-band, Ku-band up to Ka-band.

Together with off-the-shelf products, NETA does custom designs where platform and application specific conditions are important. Conformal antennas are such applications where they are designed and optimized for a specific platform such as fuselage of an airplane.

Beside the antenna products, NETA also develops antenna systems where the signal search and track are also performed especially for LOS (Line of Sight) and satellite applications. Data Link system is an end to end solution for UAV's. The Ground Data Terminal and Air Data Terminal are both ends of the system where antenna, RF and modem components are all supplied as turn key solution.

<https://www.netacoms.com/>

<https://www.linkedin.com/company/netacoms/>

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<https://www.youtube.com/channel/UCiYLTzrvTZkHGpQT8vV7Xg>

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STAND 32

Parraid, LLC, is a highly regarded, U.S. based technology and engineering company specializing in product solutions for aerospace and ground tactical applications. Our product offerings include Telemetry Data Systems (TDS), deployable tactical systems, net centric Everything over IP (EoIP) products, and rugged accessories. From expedited acquisition to rapid fielding and execution, our mission-critical solutions enable our customers to transform, evolve, and modernize. Parraid's mission is to provide world class aerospace system solutions for RF telemetry receiving, decommutation and parameter processing, compliant Chapter 10 recording, data archiving, and post mission data mining for domestic U.S. military test ranges, partner government defense contract groups, and industry clients on six continents with strict adherence and compliant interoperability to RCC IRIG 106 requirements. Parraid Rugged products help customers with connecting key systems and subsystems. Our Rugged USB is in use on Space platforms like the Mars Rover. This rugged solution is one example of our ability to develop and field flight capable solutions. Our current TDS capabilities and products include RF Receivers and Combiners, IMUX Data Recorder / Reproducer, OMEGA NEXt Real Time PCM & TMoIP Data Processing Software, software integrated Best Data Engine (BDE), software user friendly (Clarity) parameter widget display, software (Focus) customer defined output message format to drive common mission parameter displays, (Origin) software for C10 simulation capability using our PSIMe module, and post process OMEGA Data Environment (ODE). We support telemetry test stands for deployable, remote, portable, and fixed command center environments. We are currently the only company to offer an "all-in-one" telemetry ground station solution. Our capabilities support virtually any telemetry processing needs of the most challenging flight test programs. Headquartered in Maryland, Parraid is committed to ensuring the highest levels of customer satisfaction and has maintained a reputation for excellence, supporting the missions of our Department of Defense, Federal Government, Fortune 500, and commercial customers. Parraid products offer our customers unmatched performance and exceptional value backed by global engineering, sales, service, and support.

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STAND 25

PCB Piezotronics supplies accelerometers, pressure sensors, microphones, torque and force sensors and load cells. These products are used for numerous applications, such as gas turbine engines and testing rocket motor combustion instability, cryogenic fuel pulsations, hydraulic pump evaluation, and helicopter health and usage monitoring (HUMS).

They are also used for structural, vibration and flight testing of aircraft, as well as satellites for vibration, pyroshock, force limited vibration and acoustic stress testing. They can also be used in wind tunnels and to measure aircraft noise.

Through decades of collaboration with flight test engineers, PCB® has developed a set of sensors and signal conditioners tailored to flight test's demanding environments. PCB® offers a wide array of MEMS DC response, piezoelectric charge and ICP® accelerometers, microphones, pressure sensors, force sensors, and load cells. In addition, an assortment of torque sensors and high-sensitivity strain gauges are also available.

PCB Piezotronics also manufactures ground vibration sensors for Ground testing which includes flight loads simulation, material static and fatigue, structural dynamics, modal analysis, airborne and structure borne acoustics and more.

PCB's sensors operate over the wide range of aerospace temperatures, with some capable of operating over much wider extremes and radiation tolerant accelerometers for space applications.

PCB® also has extensive experience with underwater vibration and unsteady, rapidly fluctuating pressure and cavitation measurements.

The Quality Management System is ISO 9001:2015 certified by DQS, Inc. and AS9100:2016 certified by DQS, Inc., with calibration procedures accredited by A2LA to ISO 17025. Products can be manufactured to meet specific aerospace environmental standards, with program design requirements to meet RTCA-DO-160 and MIL-STD-810.

PCB PIEZOTRONICS France is the selling point of the head office PCB Piezotronics Inc.

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STAND 28

Quasonix is a leading manufacturer of aerospace telemetry transmitters, receivers, and ground antennas, as well as telemetry-focused networking solutions and test equipment. Since opening for business in 2002, Quasonix has provided solutions to 175 customers in 18 countries. Our products support test articles ranging from small missiles to space-bound launches, and all aircraft in between. Nearly 15,000 of our flight-qualified transmitters have been deployed globally. Quasonix RDMS™ receivers are also widely recognized as the technology leaders, with nearly 2,500 sold. And our new HyperTrack™ digitally controlled antennas set the benchmark for accurate tracking and ease of use.

We are a pioneer in the industry, with multiple first-to-market innovations. The result is products that vastly outperform the competition, from greater transmitter power density and efficiency, to a 3.5-5 dB improvement in demodulation with synchronization up to 100 times faster, to game-changing capabilities like Low-Density Parity-Check Coding, Space-Time Coding, and the industry's premiere Adaptive Equalizer and Best-Channel Selector. Our complete telemetry link solution continues to advance and expand, meeting the needs of an ever-growing, enthusiastic customer base.

Quasonix is... Reinventing Telemetry™

2002 Quasonix opens for business • 2004 First TIMTER™ transmitter ships • 2007 First RDMS™ receiver ships • 2013 LDPC Coding introduced • 2014 Space-Time Coding (STC) introduced; First Receiver Analyzer ships • 2015 Data Quality Encapsulation (DQE) and the Data Quality Metric (DQM) introduced; Ethernet Via Telemetry (EVTM) introduced • 2017 First Status Logger ships • 2018 Best-Channel Selector (BCS) introduced; First QTrack™ antenna ships • 2019 All-digital antenna control protocol introduced • 2021 First HyperTrack™ antenna system installed

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STAND 16

Safran Data Systems, a subsidiary of Safran Electronics & Defense, offers high-technology equipment and solutions for space communications, simulation and testing, as well as aerospace testing & information systems. Based in Europe, India and North America, Safran Data Systems currently employs over 850 passionate people. Safran Data Systems guarantees innovation, unrivaled performance and availability. As a leader in its markets, Safran Data Systems contributes to its customers' success by offering them long-term support, high reliability, backward compatibility and scalability

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STAND 10

SEMCO designs and manufactures RF and FPGA-based digital products supporting U.S. Government Department of Defense (DOD), Government Research Agencies, International Government entities, DOD Prime Contractors, and companies with DOD-related contracts. Products include Rack Mount and Portable Telemetry Receivers, Simulators, Demodulators, Up/Down Converters, RF Multi-Couplers, Re-Radiation Systems, Mobile Telemetry Systems, Automated Telemetry Test Stations, Digital Transmitters, and Custom Antennas.

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STAND 22

La société SOCOTEC Monitoring est un bureau d'étude en instrumentation, spécialisé dans l'acquisition et le traitement des mesures industrielles. Nous proposons des solutions en chaînes de mesures, complètes et spécifiques, dans le domaine des essais.

Fort de son effectif de 150 personnes, composé de docteurs, d'ingénieurs et de techniciens, ainsi que par ses 15 années d'activité, nous avons la capacité de répondre à tous projets demandant une étude spéciale, en hardware ou en software.

Nous traitons tous types de mesures avec des capteurs standards et nous étudions les besoins en capteurs spéciaux, que nous pouvons développer sur mesure. Notre ingénierie hardware développe sur mesure des capteurs ou cartes électroniques. Nous définissons le design hardware et mécanique, la connectivité, et le software embarqué. Nous possédons notamment une forte expertise dans la mesure par fibre optique, pour la mesure de température, d'effort, de pression, d'accélération, de déformation structurelle etc...

Nous avons conçu une gamme de capteurs IOT, capteurs connectés, sans fil et à très basse consommation.

Notre ingénierie software développe tous types de logiciel, en différents langages, pour le traitement des mesures (communication avec le hardware, IHM, tracés de courbes, calculs spéciaux, bilan de contrôle, etc...). Nous pouvons aussi proposer des solutions en contrôle/commande pour l'automatisation des tests.

Nos experts en DATAS pourront répondre à toutes demandes pour la collecte, la visualisation, la structuration, l'hébergement et le traitement de vos données.

Nous disposons également de compétences en image processing (mesures via caméra, détection de défauts ...), avec l'usage de l'IA si besoin.

Nous avons déjà réalisé différents moyens de mesure dans le domaine de l'aéronautique, comme la surveillance de la déformation d'un radôme pendant des essais en vol, des contrôles de perturbations sur une aile d'avion ou de la mesure de pression embarquée sur lanceurs spatiaux.

A bientôt,

SOCOTEC Monitoring is an instrumentation design office, specialized in the acquisition and processing of industrial measurements. We offer complete solutions for testing systems, with standard or specific sensors.

We have a strong optical fiber measurement and IOT sensors expertise.

Our software engineering develops all types of software and we also have skills in image processing

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STAND 8

SPEKTRA Schwingungstechnik und Akustik GmbH Dresden, Germany was founded in 1994 and has established itself as a renowned manufacturer of components and systems for the testing and calibration of sensors. The products of the family business are used worldwide for the reliable measurement of dynamic physical quantities such as vibration, acceleration, sound pressure or alternating charge.

As from 2008, SPEKTRA also includes the APS trademark under which the company manufactures and sells long-stroke vibration exciters (shakers) and runs a marketing office in California, USA under the name of APS Dynamics, Inc. Through this merger, forces based on decades of experience could be bundled to develop a new generation of even more powerful vibration control systems.

Furthermore the company's calibration laboratory is accredited by DAkkS and offers a wide range of calibration services. And all this at a level of measurement uncertainty that can normally only be guaranteed by topmost national metrology laboratories

SPEKTRA is often pioneer when it comes to the development, manufacturing or distribution of measuring and testing systems as well as calibration equipment. The use of such technology to provide special services and equipment for metrological and industrial applications enabled the company to reach an international top position in a growing market.

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A DELTA INFORMATION SYSTEMS COMPANY

STAND 12

Main Product line : Tracking Antennas

TCS was founded in 1999 with the intent to be a leader in the telemetry and communications industry by building and upgrading tracking antenna systems with a commitment to reliability, precision, efficiency, integrity, cutting-edge technology, and outstanding customer support over the life of the system.

It's **TCS's** mission to provide innovative and visionary telemetry and communication solutions designed to be reliable over the long term. **TCS** products utilize the latest in pedestal design, electronics integration, and software automation. Rather than trying to sell a one-size-fits-all system, we assess the specific needs of each client and develop a customized system designed for optimum performance, reliability, and ease of integration with your current system.

We provide turnkey solutions for flight test, range, launch support, flight termination, and satellite ground support applications. Our systems are used in demanding 24 hour/day, 365 day/year applications where reliability is paramount. We also have extensive experience refurbishing and providing upgrades to existing systems, whether from us or from other vendors. The dedication we've shown our clients over the years has given us a reputation for integrity and has made us industry leaders in client satisfaction. We have a history of delivering only the highest quality products and services on time and within budget; and we back them with a guarantee of satisfaction—a job is not complete until our client says it is.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems.

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STAND 1

TECHWAY is a high-tech electronics supplier specializing in acquisition and FPGA-based processing of Signal and Video data in real-time. Our mission is to deliver innovative solutions and top-level support to our clients in Defense, Avionics, and Industry markets by mastering our products from A to Z to offer customized service products, and by understanding needs and expectations of our customers for a successful delivery of their projects.

Our engineering team is specialized in high-end solutions based on FPGA & MPSoC, and high-speed optical communications. We design and develop COTS products dedicated to high-speed data acquisition and preprocessing in test benches, ground equipment and production applications for any protocols (sFPDP, Aurora, SpaceWire, LVDS, ARINC 818, ODI, ...). Our product ranges include versatile Xilinx MPSoC & FPGA PCIe boards with VITA 57.4 FMC+ connector, high-speed optical interfaces, ARINC 818 video protocol solutions, and ready-to-use applicative solutions such as VITA 17 sFPDP platforms and analog to 10GbE systems. TECHWAY also offers integration services based on its products to provide acquisition and recording systems according to your project specifications. Thanks to versatility of our solutions, our OEM customers use it in many fields as Electronic Warfare, COMINT, SIGINT, Telecom and more.

Since 20+ years, we are recognized as an ARINC 818 expert on Avionics market thanks to our partnership with Great River Technology, co-inventor and global leader of the ARINC 818 protocol, Avionics Digital Video Bus. TECHWAY is today the European leader in the ARINC 818 protocol and continues to develop innovative projects and products for AIRBUS, SAFRAN, BAE, DASSAULT, SAAB and more.

TECHWAY activities are ISO 9001 and EN/AS 9100 certified which aims to guarantee our customers that our products and services meet their requirements, come in on time and within budget, effectively managing any risk.

Avionics applications

Our 10x10 ARINC 818 switch is used by major avionics manufacturers like for the A350 certification program or for test benches in production.

The ARINC 818 protocol, based on the FC-AV (Fiber Channel Audio Video) standard, allows the video stream to be transported with determinism and very low latency. The ARINC 818 Supplement 3 standard supports streams from 12 Gbps for 64b/66b encoding, up to 28 Gbps for 256b/257b encoding.

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STAND 24

Telspan Data is a leader in telemetry technologies for airborne, ground, shipboard, range and laboratory environments. Their Multi-Disciplined product architecture leverages open standards and the latest SoC, data transmission and processing technologies.

Telspan's ruggedized product line includes high speed/high capacity recorders, Ethernet switches, active TAP & aggregators, and TMoIP gateways.

MITR is high-bandwidth, high-capacity IRIG 106 Chapter 10 data recorder/publisher with a modular TAP Interface Module (TIM) and Removeable Memory Module (RMM). The configurable TIM provides protocol independent full duplex 1-10G optical transceivers, MIL-STD-1553, video, audio & PCM channels. Logic driven protocols for optical channels include Ethernet, Fibre Channel, sFPDP, ARINC-818, & other communication transports. The RMM supports up to 64TB and supports recording bandwidths up to 64Gbps (8GBps).

iES is rugged, multi-port layer 2/3 managed gigabit Ethernet switch with a high time accuracy internal GPS receiver & a hardware based IEEE-1588 & IRIG-A/B/G TCG. A FPGA provides built-in IRIG 106 Chapter 7 & HDLC PCM encoding & decoding. This allows PCM output of VLAN, mirrored or filtered Ethernet switch traffic

Range and laboratory products include PCM Decom's, recorders, reproducers, gateways, and "Data Fusion" software.

The DataHUB product line is a standards-based telemetry ground system with IRIG 106 Chapter 10 record, reproduce, publish & subscriber capability. DataHUB also provides TMoIP Gateway functions with IRIG 106 Chapter 7 & IRIG 218 encoding/decoding. A GPS receiver can seed the internal IRIG-A/B/G, NTP and IEEE-1588v2 time generators. The core system is driven by an SoC, logic & Linux, not a Windows based host computing system.

NetView Data Fusion provides real-time decoding, processing, display & distribution from multiple CH10 data sources & network-based instrumentation systems. NetView decodes, time aligns, processes & displays multiple independent data source types & formats in a single processing & display environment.

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STAND 37

TUALCOM has been developing high-technology, high-performance and competitive products in Communications and RF-Microwave Fields since 2013.

Research and development activities have been at the epicenter all design and development efforts at TUALCOM since the beginning, leading to innovative products at both system, subsystem and component levels.

Product range spans over various domains in the fields of RF and Microwave technology with more than 80 different solutions for GPS / GNSS Anti-jam CRPA, Telemetry, Data Acquisition and Data Recording Systems, Flight Termination, Electronic Warfare and 5G Communication systems. TUALCOM solutions have already deployed on more than 80 platforms and proven their value at the field.

TUALCOM takes the minimal design approach one step further by integrating data collection feature into its telemetry solutions. Telemetry products provide high-performance solutions in various geometries to be deployed on a wide range of platforms ranging from UAVs to missiles / rockets. Integrated and stackable data collection systems capable of collecting and recording different digital and analog data are among the products offered. IRIG 106 compatible solutions integrate seamlessly with all legacy systems.

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STAND 36

UEI hardware and I/O systems are designed to meet the stringent requirements of the aerospace industry. Whether commercial aviation, military aviation, or space industry, UEI has rugged and reliable solutions for your application. UEI hardware and VISTAS is the perfect cost-effective and high-quality match for any virtual/hybrid/real test benches. UEI I/O Hardware with VISTAS Gateway allows avionics to be easily emulated, accessed, and controlled through ethernet. Our Cube, Rack and MIL chassis provide the right platform to build your solution, and with more the 90+ I/O boards, we are sure to have everything you need! We support most popular OSs, programming languages and application packages. Plus, with our long-term 10-year availability guarantee, you won't need to worry about product obsolescence issues!

Check out our website at <https://www.ueidaq.com> and watch our videos on <https://www.ueidaq.com/support/videos> to see the cutting-edge technology our employees use and develop on a daily basis. Our technology is both exciting and challenging and because we are driven to find the best solutions for our customers, we have customers for life!

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STAND 30

VITEC is a market-leading provider for the design and manufacture of hardware and software for video encoding, decoding, transcoding, archiving and streaming over IP. Our end-to-end video streaming solutions enable customers to capture video content directly from any source and manage its delivery, as channels or within digital.

From corporate, broadcast and venues, to accommodation, government and military, VITEC has global expertise

in delivering complex, proAV solutions. Our encode/decode solutions are 100% hardware based, including PCIe cards with SDK for custom design or OEM for high-performance video systems.

VITEC is a key player within the Intelligence, Surveillance, Reconnaissance and Situational Awareness arena. Our field-proven products tackle video ingest, streaming, dissemination and archiving needs in the field and inside military and government facilities.

With a complete line of products designed to enhance military workflows by digitizing, distributing and viewing high quality video and critical metadata across the network, VITEC supports the most advanced video formats for Situational Awareness, Decision Support Systems and IPTV Platforms.

Designed to stand up to the rigours and mission critical nature of military and government operations, our Military- grade, ultra-compact, highly-rugged, VITEC's TOUGH series of Portable, Power-Efficient HEVC & H.264 streaming encoders deliver all the required capabilities to fulfill the most stringent Full Motion Video applications (FMV)

Our encoders provide high quality, low latency video encoding with frame accurate KLV metadata processing including Cursor-On-Target, MISB KLV and STANAG 4609 from IP, SDI or Serial sources.

Headquartered in Paris, France, we have a global reach through our offices across the Americas, Europe, Middle East, Africa and Asia Pacific. Making a difference with green initiatives, VITEC is the first Zero Carbon MPEG company and encourages customers to buy GreenPEG™ for continued environmental efforts to reduce greenhouse gases.

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STAND 12

Main Product line : Ground Recorders

Wideband Systems designs and manufactures sophisticated recording instruments for the aerospace, communications, and intelligence marketplace.

We specialize in custom designed recording systems as well as provide standard, off-the-shelf recording products satisfying a wide range of demanding requirements.

Wideband Systems is focused on being the quality supplier of high-performance, real-time recording systems. Our versatile disk-based Digital Recording Systems are designed with analog and digital instrumentation interfaces and flexible control features. Typical applications for our configurable, wide-bandwidth recorders/reproducers (optimized real-time RAID systems) include aerospace telemetry, communication test & evaluation, & intelligence ISR & EW.

The Delta Information Systems DIS Family of Companies includes Acroamatics, Ampex, Delta Digital Video, GDP, TCS, & Wideband Systems.

Local Representative



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