



Taiwan Space Industry Development Association

2024 Member Catalog

Taiwan Space Industry Development Association

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30078,Taiwan,R.O.C.

www.tsida.tw

Testing and Equipment
Components and Parts
Materials
Communication
System Integration
Satellite Application Services
Satellite Launch Services
Research Institute
Insurance and Safety

Taiwan Space Capacities and Capabilities

2023 proved a promising year for Taiwan's space industry, with revenue growth across satellite manufacturing, ground equipment, and satellite services. In addition, the estimated 1,833 percent increase in launch revenue from 2022 signals the strong government support for space policy. Here's a concise overview:

Satellite Manufacturing

Northern Taiwan, home to industry clusters in semiconductors, electronic components, and communications, serves as a hub for satellite manufacturing. While industries in central and southern Taiwan contribute to domestic space product manufacturing.

Ground Equipment

Taiwanese manufacturers are renowned for their expertise in semiconductors and network equipment, hold strong positions internationally. They supply components to companies like SpaceX or OneWeb, aiming to enhance product value and capture global market opportunities.

Satellite Services

Companies focus on domestic markets, offering services such as geographical mapping and satellite broadcasting. They could also act as agents for international satellite providers that provide solutions or communication equipment. With the development of non-synchronous satellites like MEO and LEO, there is also an active expansion for more services.

Launch

Launch services in Taiwan focus on intermediary services and often diversify into related areas like satellite component manufacturing, space verification services, smart manufacturing equipment, and other components.





Taiwan Space Agency

The Taiwan Space Agency was established in 1991 as the Preparatory Office for the National Space Program, with the initial goal of developing the country's space infrastructure and nurturing space talent. On January 1, 2023, it was reorganized as a legal entity under the direct jurisdiction of the National Science and Technology Council.

The satellite programs executed by the TASA include the Formosat-1, -2, -3, -5, -7 series, and the TRITON Satellite. Formosat-1 is a scientific satellite, -2 and -5 are remote sensing satellites, and -3, -7, and TRITON are meteorological satellites. Over the past 30 years, TASA has established satellite IAT facility and system engineering capability through these projects.

Looking ahead, TASA has initiated programs such as the Formosat-8 Optical Remote Sensing Satellite constellation, Formosat-9 Synthetic Aperture Radar Satellite, Beyond5G Low Earth Orbit Communication Satellites constellation, Small Orbital Launch Vehicle Program, and the National Launch Site Construction Project, aiming to accelerate the development of Taiwan's space industry.





Taiwan Space Industry Development Association

The Taiwan Space Industry Development Association (TSIDA) is a non-profit organization established in 2019 under the initiative of the Taiwan Space Agency (TASA). Our mission is to promote the development of Taiwan's space industry and facilitate industrial exchange and cooperation domestically and internationally. Our scope of work includes organizing exchanges between industry and government departments, academia, as well as hosting domestic and international conferences and forums. As of January 2024, we have a total of 92 organizational members and 20 individual members.

Since 2023, with the transformation of the Taiwan Space Agency, our collaboration with TASA has become even closer. Together, we co-organized the first TAIWAN International Assembly of Space Science, Technology, and Industry (TASTI) and held more industry matchmaking events with other countries.

Additionally, Taiwan enjoys a significant advantage in the field of ground equipment for the satellite industry, thanks to its technical strengths in the communications industry. The association aims to leverage this advantage to further expand international cooperation opportunities and promote cross-border collaboration. We look forward to Taiwan playing an increasingly important role in the international space industry chain and future developments.

Dr. Jong-Shinn Wu

The Director General of the Taiwan Space Agency (TASA) and the President of Taiwan Space Industry Development Association (TSIDA)

Taiwan's space industry, with its endless potential, stands ready to contribute to the global space sector. As the Director General of TASA and the President of TSIDA, I am privileged to lead these organizations at the forefront of Taiwan's flourishing space industry. The objective of international cooperation is not solely to advance satellite technology but also to effectively integrate Taiwan into the global space supply chain.

The space industry in Taiwan is undergoing rapid expansion, with satellites playing crucial roles in shaping the global space environment. We actively cultivate business partnerships through the platform offered by TSIDA. Taiwan has undeniably established itself as a strong contender in the space industry. Bolstered by a robust technological foundation, we are ready to seize opportunities in the continuously evolving space sector, propelling Taiwan's space industry to even greater heights.

Looking forward, we encourage innovative ideas and conquer technical challenges. We embrace international collaboration and look forward to partnering with organizations globally to engage in proactive strategies to explore space and collectively shape the course of space exploration and satellite technology.



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Professional Fields

Testing and Equipment

Description

Advanced Material Systems Co., Ltd. (AMS) was established in 2006 and the company is located in Taoyuan, Taiwan. AMS's main products are aluminum alloy and carbon fiber high-pressure gas cylinders, for sports, industry, medical and aerospace industries. These products have obtained the certifications of EU TPED, PED, UK Rho, US DOT, Canada TC, Australia, and other regions.

AMS is dedicated to investing in the aerospace field, cooperating with domestic and foreign research institutes and companies developing aerospace programs to develop a variety of satellites and commercial rocket products. Products on satellites include various ion thruster cylinders for satellites, which are used as power sources for satellite orbit maintenance and conversion.

Product/Service Highlights

1. Strong ability & knowledge design of RD with extensive experience in mass production and traceable In-house quality control.
2. AMS is the Tier one gas company supplier in industrial and medical cylinder as well as offer to sports brand customer cylinder products.
3. Products on satellites have been launched into low orbit by customers and successfully tested, establishing low-orbit satellite operation performance. Many satellites are currently in use and operating in low orbits.
4. AMS has jointly researched and developed with various domestic academic and research institutions. AMS has made a number of rocket engines, large oxidizer tanks, and rocket structures, and completed the goal of fully independent production.
5. AMS shall cooperate with government policies and dedicate to achieve the goal of independent domestically made rockets entering orbit.



Large-size Oxidizer Tank



Cylinder for Satellite Propulsion System



AEGIVERSE

AEGIVERSE Co., Ltd.

Contact

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Professional Fields

Components and Parts

Description

AEGIVERSE Fiber optic gyroscope (FOG) has high-quality performance, holds 21 key invention and design patents, and has design/manufacturing ability from chip to FOG.

We localize our supply chain, R&D, production capabilities and OEM/ODM capabilities in Taiwan to meet the requirements of domestic and foreign customers.

Product/Service Highlights

We redesign with the concept of integrated packaging, simplify the process through special mechanism design, reduce the cost of chips and packaging, and provide users with high-precision, high-reliability, and economical inertial positioning solutions.



AFI series Fiber Optic Gyroscope Inertial Measurement Unit
3 axis optical inertial rotation sensor with accelerometers



GP-1Z0 series Fiber Optic Gyroscope
1 axis optical inertial rotation sensor

BASO

BASO PRECISION OPTICS LTD

Contact

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Professional Fields

Components and Parts, System Integration

Description

BASO is a professional optical manufacturer including optical/mechanical design, optical/mechanical parts & lens assemblies. Our product portfolio includes high precision optics, theater projection, AOI, sport optics & semi-conductor relative application.

According to cooperation with TASA, BASO has developed few projects on this field, accumulated gradually relative knowledge & skills.

With going deep in this special application, BASO makes a decision to improve significantly manufacturing accuracy by investing CCP.

It indicates the coming of a new era for Taiwan optics manufacture & it also a demonstration of enthusiasm that BASO would head to ultra-precision optics.

Product/Service Highlights

BASO provides products for the field of Automatic Optical Inspection, Projection, Sport optics, Telescope and relative applications in Semi-Conductor industry.

Considering the applied surroundings different from most commercial optical products, we can develop relative products from design stage and combine the best solution from various parameters including specifications, quality, budget, test procedures, and performance test.

Although BASO was built in 1970 having many successful products, we are a new player in space industry and looking forwards to any challenges.



EFL=50mm, CA=16mm, F/No.=6.6
Dim.=42x42x71mm, Mass≤190g



EFL=100mm, CA=21mm, F/No.=5.1
Dim.=34x34x82mm, Mass≤250g



EFL=600mm, CA=85mm, F/No.=7
Dim.=98x98x130mm, Mass ≤ 1,000g



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Professional Fields

Materials

Description

Epotech Composite Corporation specializes in composite matrix research and manufacturing applied on various applications, such as aircraft and space industries.

The advantages of the material are weight reduction, remarkable physical and chemical properties to fit requirements in respective environment; for instance, the resistance to moisture absorption and outgassing limitation (TML, CVCM).

We are also experienced in manufacturing aerospace composite components.

Product/Service Highlights

Low outgassing and low moisture takeup requirements

TML: <1%

CVCM: <0.1%

Moisture takeup: <0.2%

Application: Aerospace, Space, Electronic industry



Composite Cylinder for Optical Payload Application



Composite Parts for Optical Payload Application



FAIR POWER TECHNOLOGIES CO., LTD.

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Professional Fields

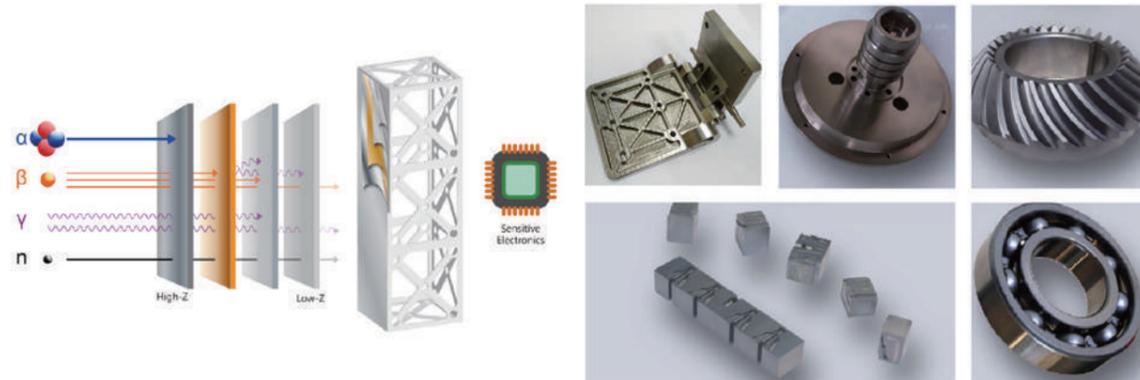
Materials

Description

FAIRPOWER developed the space tribology and dry film aerospace lubricant by using a novel Kinetic-Fusion-Technology, which can use single solid lubricant and composites. It does not only meet the quality of Dicronite®, but also improve the thickness and material structure to extend the operation lifetime. With the same novel Kinetic-Fusion-Technology, we develop an innovative radiation shield made by multilayer metal materials. It is a new, low cost and easy to implement method to protect Cubesats and Smallsats electronic circuits from ionizing radiation found in Low Earth Orbits. It is estimated that this approach can extend the life of Cubesats and Smallsats electronic components from 3 months to years.

Product/Service Highlights

Space tribology, Dry film aerospace lubricant
Satellite Radiation Shielding (T-Shields, multilayer metals)



Satellite radiation shielding (T-Shields, multilayer dissimilar metals)

Space tribology, solid lubrication and nano-lubrication technology



Formosa Plastics Corporation (FPC)

Contact

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Professional Fields

Testing and Equipment,
Materials, Research Institute

Description

Formosa Plastics' TAIRYFIL process is fully integrated from self-developed PAN precursor to carbon fiber. In-house technology, science-based analysis and smart manufacturing concepts realize here.

1. Introducing AOI to monitor the process stability and incubating R&D capabilities for resin formulation.
2. Providing production line for prepreg and pultruder for profiles and validation by testing machine to meet customers' needs.
3. High-Valued instruments including FE-SEM, XPS, AFM, NMR, XCT, XRD, etc.

The two production bases are Renwu and Mailiao.

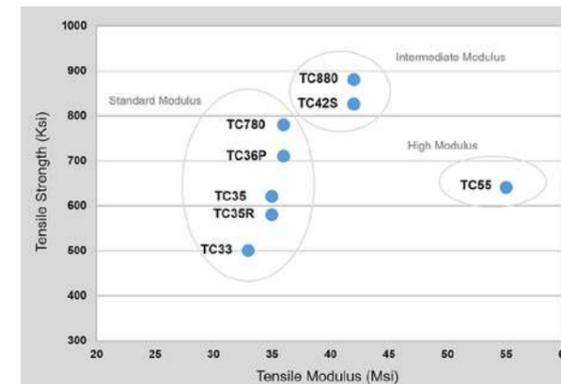
1. The Renwu Technical Department is an innovation center with resin development and open for collaborations.
2. Mailiao has the most comprehensive testing center for valuable instruments that conducts complete analysis for carbon fiber.

Product/Service Highlights

Formosa Plastics has a complete range of carbon fiber (TAIRYFIL) products from 1.5K to 48K, standard strength to medium-high modulus. The medium-high modulus TAIRYFIL have applied in FORMOSAT-8.

We newly developed TC780 made by dry-jet wet spinning process. With 99% roundness, stable quality and higher strength, TC780 is widely used in the hydrogen energy industry. In June 2021, TC780 high pressure Krypton vessel successfully accomplished space rideshare missions.

On the basis of TC780, we launched high strength intermediate modulus TC880. With excellent abrasion resistance and processability, TC880 is tailor-made for high-performance and weight saving application further.



Various grades TAIRYFIL carbon fiber and newly developed TC780 & TC880.



TAIRYFIL is fully vertically integrated from precursor to carbon fiber.



Industrial Technology Research Institute (ITRI) Commercialization and Industry Service Center (CIS)

Contact

Head quarters

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Professional Fields

Testing and Equipment,
Components and Parts,
Materials, Communication,
System Integration, Satellite
Application Services, Research
Institute

Description

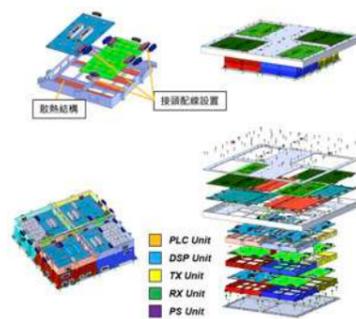
Founded in 1973, the Industrial Technology Research Institute (ITRI) is Taiwan's largest and one of the world's leading high-tech applied research institutions. The organization is committed to utilizing its R&D results to drive industrial development, create economic value, and enhance social well-being. ITRI is dedicated to commercializing R&D achievements, cultivating exceptional talents, and providing comprehensive industrial services and business consultancy. The Commercialization Industry Service Center (CIS) in ITRI helped promote the industry on the frontline. Successful examples such as open lab and incubator have fostered emerging industries and startups including well-known names such as UMC and TSMC.

Product/Service Highlights

CIS business includes the following areas: Circular Economy, Net Zero, Renewable Energy, Space/ Satellite, Startup Co-creation Ecosystem, Diverse Field Verification Services, Industry Clusters, and Global Collaboration. Regarding the Space Industry, our goal is to promote the Satellite industry, establish satellite communication supply system for the global satellite ecosystem, and integrate high-value-added solutions or services into the ICT and semiconductor globally.



Navigating the Global Multi-Orbit Satellite Landscape: Trends and Opportunities Seminar



Communication Payload



INTAI TECHNOLOGY CORP.

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Professional Fields

Testing and Equipment,
Components and Parts,
Communication, System
Integration, Satellite
Application Services

Description

INTAI was founded in 1988 as a precision fastener manufacturer. Today, headquartered in Taichung, Taiwan, with over 760 employees, we offer a wide range of products serving industries such as automotive, aerospace, precision hardware, medical device and electronic communication.

Product/Service Highlights

RF Switch & Switch Matrix

Develop and manufacture customized microwave components. Delivering solutions through our integrated RF & Microwave manufacturing services for commercial, wireless, automotive and telecommunication industries.

InConnect DAS

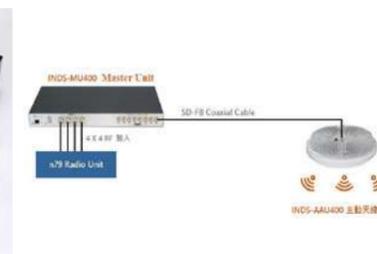
InConnect DAS is an innovative 5G active indoor signal coverage system that widely used 5D coaxial cable and weak electricity construction. The active antenna in the system end can provide intelligent Gain Compensation and no need for complex link budget calculation. It is a perfectly solution to assists enterprises, warehouses, and factories in quickly deploying 5G/LTE indoor signal coverage.

InConnect Portable Satcom Terminal

InConnect Portable Satcom Terminal deploys horn waveguide array Antenna, which features integrated structural design and high gain. The unique embedded system design and HMI displays that is providing users easy to operate. InConnect portable satcom terminal is fast, simple and easy to deploy which can suitable for emergency services, military, government and enterprise communications.



RF Switch & Switch Matrix



InConnect DAS



InConnect Portable Satcom Terminal



Jetsoft Technology Co., Ltd.

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Professional Fields

Components and Parts,
Materials, System Integration,
Satellite Application Services

Description

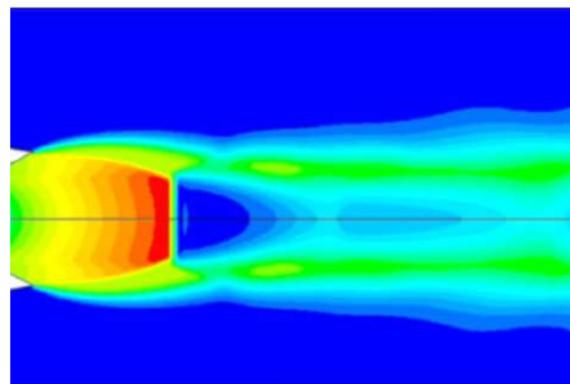
Established in 2007, Jetsoft Technology Co., Ltd. is the top all-round CAD/CAE/CAM/PLM software solutions provider in Taiwan, fully devoted in providing total solutions for enterprises to satisfy their product development process. The headquarters of Jetsoft Technology is established in Taipei, with two branch offices located in Taichung and Tainan. Currently, Jetsoft Technology has serviced over thousands of enterprises, forming solid strategic partnerships with ANSYS, PTC, OPEN MIND and INNEO.

The ANSYS solution we are fully geared towards offering include Structural, Multibody Dynamics, Thermal, CFD, Moldflow, Acoustic, Vibration, Multiphysics, etc. Our core strength covers a plethora of advanced technological fields, such as electronics, medical/industrial equipment, engineering machinery, aerospace, ThingWorx, automotive Transportation & mobility etc. Here at Jetsoft Technology, we're 100% dedicated in providing essential services for the entire R&D process.

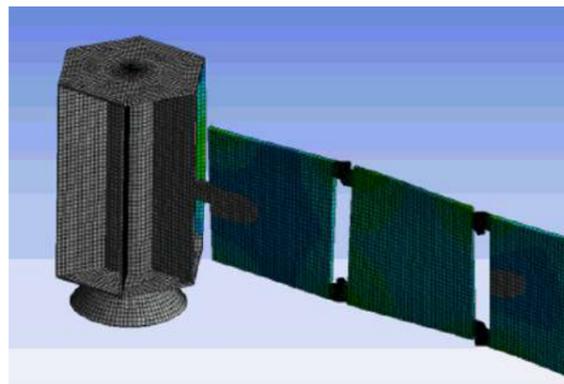
Product/Service Highlights

High Fidelity Solutions for Satellite Applications:

1. Mechanical Structure Design: Topology Optimization, Composite Structure Analysis, Static Analysis, Vibration Analysis...
2. Fluent (CFD simulation): Aerodynamics, Propulsion system, Combustion chamber, Cavity flow field, Fluid-Structure Interaction
3. System-level thermal (Thermal desktop): Radiator, Insulation, Orbital heating, Heaters Solar Radiation
4. Electromagnetic: RF Component Design(Antenna/Filter), Signal Integrity & Power Integrity



Plume composition and radiation



Satellite with Solar Panel Modal Simulation



Jonsa Technologies Co., Ltd.

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Professional Fields

Testing and Equipment,
Communication, System
Integration, Satellite
Application Services

Description

Since 1989, JONSA has been a satellite antenna supplier in Taiwan. With our patented RF, object-oriented design and stable raw materials, JONSA can manufacture high-quality parabolic dish that includes DTH, VSAT, WISP, Flyaway, and Maritime antenna.

These antenna products are extensively applied to the commercial, offshore/oceanic environment, Internet service, emergency communications, weather data analysis and so on.

Our monthly production capacity has been over one million in a variety of antenna products, and JONSA is looking for the partners to cooperate internationally.

Product/Service Highlights

0.6M/0.9M Auto or Manual Flyaway antenna — Flyaway applies to the war zone for military communications and broadcast media, and it is extremely portable and supports manual, auto and one button capture satellite within 3 minutes.

0.6M/0.9M Ka and Ku band Maritime with radome — Maritime is suitable for merchant vessels, fishing, luxury yachts and more, and it can achieve the image, voice, and data transmission with high speed as well.

Not only can it provide the tracking function, but it can also enhance the precision.



- 0.6M/0.9M Auto and Manual Flyaway
1. Ring focus antenna with 8 segments reflector
 2. Carbon fiber reflector with light weight, high strength and one person can finish the installation within 3 minutes.
- VSAT (E74/97/120) antenna
1. Customized VSAT antenna products
 2. Correspond with electronic devices, such as integrated LNB and Feedhorn
- 0.6M/0.9M Ka and Ku band Maritime with radome
1. High gain and carbon fiber antenna
 2. Support beacon receiver, DVB, and digital tracking system





Keysight Technologies Taiwan Ltd.

Contact

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Professional Fields

Testing and Equipment

Description

At Keysight (NYSE: KEYS), we inspire and empower innovators to bring world-changing technologies to life. As an S&P 500 company, we deliver market-leading design, emulation, and test solutions to help engineers develop and deploy faster, with less risk, throughout the entire product lifecycle.

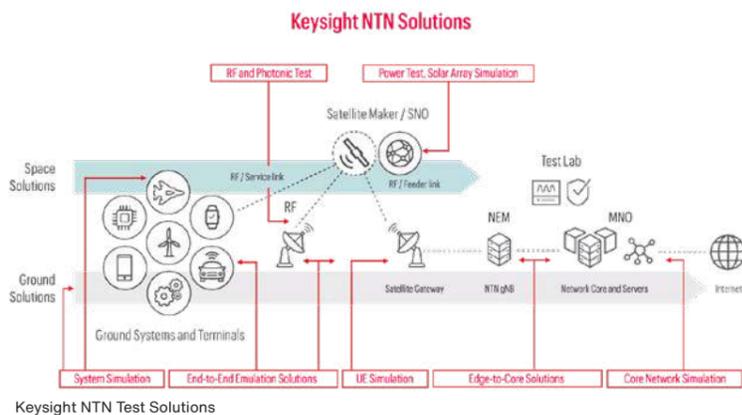
We're a global innovation partner enabling customers in communications, industrial automation, aerospace and defense, automotive, semiconductor, and general electronics markets to accelerate innovation to connect and secure the world. Learn more at www.keysight.com

Product/Service Highlights

Keysight provides comprehensive space/satellite test solutions, from simulation, design, to mass production testing.

1. Prototype and design platforms for complex RF systems in NTN.
2. RF Transceiver and Component Test
3. Device Chipset Test
4. RF channel emulation for direct-to-device NTN service testing in the lab.
5. Device RF and Protocol Compliance
6. Real-Time NTN Signaling Analysis
7. Validate NTN end-to-end performance with up to thousands of UEs.
8. Model and emulate NTN and terrestrial network interoperability.

Explore more Keysight's NTN emulation and test solutions at <https://www.keysight.com/tw/zh/cmp/2023/ntn.html>



Keysight NTN Test Solutions



KING DESIGN INDUSTRIAL CO., LTD.

Contact

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Professional Fields

Testing and Equipment, System Integration, Research Institute

Description

KING DESIGN was founded in 1983, a world-famous own brand manufacturer of testing equipments in the field of vibration, shock, drop, solar cell and environmental test, which providing total solutions of test and measurement instruments, as well as custom made one-stop systems for various technology industries. With more than 30 years of relative experiences, King Design has been a solid expert and highly respected market leader.

Product/Service Highlights

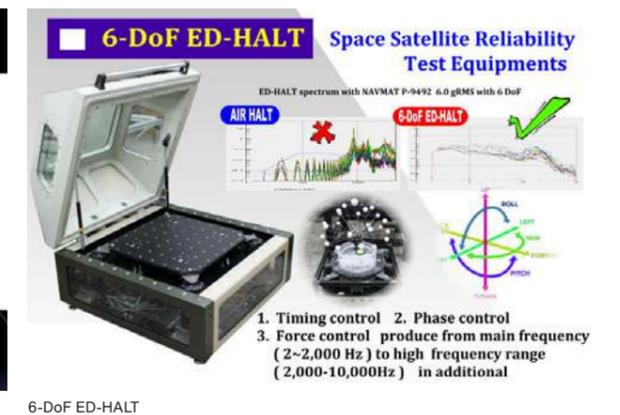
PV Test Equipment, Vibration Tester, Shock Tester, Bump Tester, Drop Tester, PyroShock Tester, Temperature, Humidity and Relevant Environmental Test, Special Design Test Equipments.

Laboratory Test Service: Vibration, Shock, Drop, Jumping, Temperature & humidity test, Carton pressure-resisting test, Dynamic analysis, Calibration, Aerospace Test Solutions: ACS Features and benefits

- Wide range of TVC sizes, with diameters ranging from under 1m up to 10m
- High quality and vast experience in vacuum pumping systems
- High quality of black shroud paint with a solution for low outgassing at maximum temperatures (>+150°C) according to ESA standard ECSS-Q-ST-70-02C
- Special shroud design to withstand the highest heat dissipations (>5 kW/m2) Special attention to minimizing consumption through hardware solutions and software management of the plant
- Integrated control and monitoring system totally developed by ACS
- Special attention to and experience in redundancy aspects
- Full capability for supplying turnkey systems



Aerospace Test Solutions



6-DoF ED-HALT



LISCOTECH SYSTEM CO., LTD

Contact

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Professional Fields

Testing and Equipment,
Components and Parts, System
Integration

Description

Liscotech is an aerospace company based in Taiwan. We focused on developing instruments which specialise in specific applications and designing systems that require high stability. We have successfully launched several FPGA / CMOS imaging payloads, also the payloads based on X86 and ARM platforms.

As it looks to the future, Liscotech is making efforts to develop and design new systems for different wavebands like UV, SWIR and LWIR. We are also expanding our expertise to UAVs. At Liscotech, we believe the world works better when it flies.

Product/Service Highlights

Our main products specialise in aerospace applications, including Electronic Parts of Optical Remote Sensing Payload, OBC and Electric Power Systems for CubeSat and Microsatellite. Besides space products, we have a Long Wave Infrared (LWIR) Monitoring System. With dual sensor design, it can work independently as assembly, quality control or object identification.



RSI-2000 CubeSat Remote Sensing Instrument

OBC-100 CubeSat On-board Computer

EPS-100 CubeSat Electronic Power System



LiveStrong Optoelectronics Co., Ltd.

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Website

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Professional Fields

Testing and Equipment,
Components and Parts,
Materials, System Integration,
Satellite Application Services,
Research Institute

Description

LiveStrong specializes in advancing space optoelectronic research, covering the development of solar cells/modules for space to key satellite component technology. With a strong testing background, we provide various optoelectronic inspection system to identify bottlenecks, ensuring customer success. Our commitment to cutting-edge technology, enables us to deliver innovative and optimal solutions.

We also offer space verification services. Tailoring testing plans to component/module characteristics, ensuring compliance with space specifications, we support clients in efficiently completing verifications. Providing essential testing software, hardware, fixtures, and simulation tools, we facilitate clients' swift entry into space, allowing focused product development.

Product/Service Highlights

1. The only Taiwanese company with space-qualified solar modules verified according to space specifications (ECSS).
2. Established a paint facility fully compliant with space standards, offering high solar absorptance, low outgassing, and controlled-resistance coating services.
3. Comprehensive one-stop space product verification services.
4. Customized high-end optoelectronic inspection equipment.
5. CubeSat component design and development, as well as procurement services.
6. Customized component and equipment design, analysis, development, and testing.





National Chung-Shan Institute of Science and Technology

Contact

Head quarters

No.481,6th Neighborhood,Sec. Jia'an,Zhongzheng Rd.,Longtan Dist.,Taoyuan City 32546,Taiwan

Point of Contact

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Website

<https://www.ncsist.org.tw/eng/csisdup/main/Default.aspx>

Professional Fields

Testing and Equipment, Components and Parts, Materials, Communication, System Integration, Satellite Application Services, Research Institute

Description

The main businesses of our institute are listed below:

1. The development, manufacture, and sales of defense technology and weapons
2. The development, manufacture, and sales of dual-use technology
3. Domestic and International Cooperation in Technology, Information Exchange, and Promotion
4. Technology Transfer, Technical Services, and Industrial Consultancy with Domestic and Foreign Partnerships
5. Developing National Defense Technology Talents
6. Main Military Construction
7. Cooperation with the Ministry of National Defense
8. Other NCSIST related issues

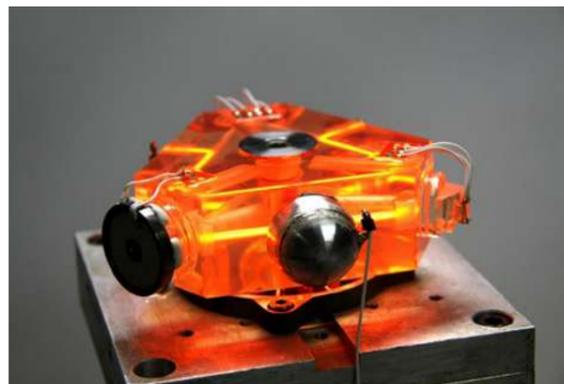
Product/Service Highlights

The main products are listed below:

1. Defense Systems: Defense Weapon System, etc.
2. Aviation Systems: Unmanned Aircraft, etc.
3. Electronic Systems: Electronic surveillance and jamming system, etc.
4. Communication Systems: Ground Control Stations, etc.
5. Information Technology: The Mission Planning System of Photogrammetry and Remote Sensing, etc.
6. Green Energy and Dual-use Technologies: Thin Film Solar Cell Process & Apparatus, etc.
7. Technical Support and Services: The electromagnetic pulse protection laboratory, etc.
8. Emerging Advanced Technologies: Ring Laser Gyroscope, etc.



HF III Supersonic Anti-Ship Missile



Ring Laser Gyroscope



Ohmplus Technology Inc.

Contact

Head quarters

Rm. 7, 22F., No. 99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Point of Contact

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spencer@ohmplus.com

Website

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

Professional Fields

Testing and Equipment, Communication, System Integration

Description

Ohmplus Technology Inc. was funded in 2021 with joint investments from NTU and private listed companies under the guidance Unicorn Program of the Ministry of Science and Technology.

All solutions developed by Ohmplus were based on the algorithm, OHM⁺Fast. It features Fast Measurement (testing speed is rough 10 times faster than existed), Automatic Calibration (optimizing phased component parameters without moving the test antenna), and Online Recovery (make 10% of failed antenna elements available). Besides, the Fast Group Testing system even can test up to 32 DUT simultaneously to reduce the space, time and cost more.

Ohmplus will continue to provide high accurate and extreme fast testing solution of RFIC and phased array antenna with the service-oriented and sustainable business philosophy.

Product/Service Highlights

1. Fast Calibration & Testing System for Phased Array Antenna
2. Fast Group Testing System for Phased Array Antenna
3. OHM⁺Fast-GT-S | Multi-sites Group Testing
4. The design and production for special array antenna system
5. The integrated planning for customized production line

Those solutions above have announced by Ohmplus Technology Inc. and applied to mainly focused on industries such as low-earth orbit satellites, semiconductor testing supply chain, and 5G communication.



The Fast Group Testing System



The photo of all employees



OHM⁺Fast GT-S | Multi-site Group Testing



Proscend Communications Inc.

Contact

Head quarters

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Hsinchu 300093, Taiwan, R.O.C.

Point of Contact

Jim Chen / Chairman
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jim@proscend.com

Website

www.proscend.com

Professional Fields

Components and Parts,
Communication, System
Integration

Description

Proscend Communications is a leader in industrial networking solutions and is committed to keep pace with the innovations for next-generation connectivity. Established in 1999, we act as a trusted partner to build strong relationships over 60 countries globally especially for India, Japan, Germany, etc. and cooperate with various ecosystems across diverse industries.

With proficient expertise and professional experience, we have seamlessly integrated 5G and AIoT technologies, offering cutting-edge private/public 5G networks and Industrial IoT solutions for smart transportation, factories, green energy stations, and security applications.

Our aim is to enable a symbiotic, prosperous, and sustainable world with global partners.

Product/Service Highlights

Industrial 4G LTE/5G NR User Equipment, Industrial Edge AI Gateways, Industrial IoT Gateways, Outdoor Hardened 4G LTE/5G NR UE, Industrial Ethernet Switches, Long Reach PoE, IoT Management Platform.



Industrial 5G NR UE



Outdoor 5G NR UE



Outdoor 5G NR Ruggedized UE



Pyras Technology Inc.

Contact

Head quarters

No.396, Fude 1st Rd., Xizhi Dist.,
New Taipei City 22150, Taiwan
(R.O.C.)

Point of Contact

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Website

https://www.pyras.com.tw/

Professional Fields

Testing and Equipment,
Communication, System
Integration, Satellite
Application Services

Description

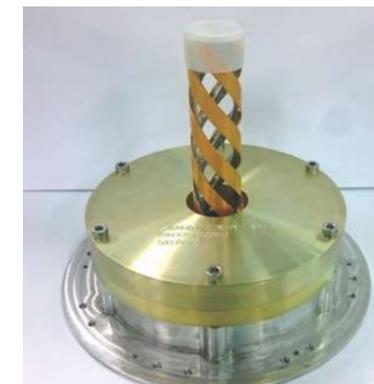
Pyras has been actively involved in the production of antenna components since the Formosat-1 mission, accumulating decades of experience in the space industry. In recent years, we have taken further strides in expanding our footprint in the space industry by developing ground stations for satellite applications. This year, we are set to launch a CubeSat commissioned by TASA, marking a significant milestone in our journey.

Our vision is to become a leading provider of integrated services for maritime satellite applications, injecting modern elements into traditional deep-sea fisheries. Pyras is committed to pioneering advancements in the space sector and contributing to the evolution of satellite technology.

Product/Service Highlights

Pyras Technology's product development spans across land, sea, and air, encompassing ground stations for low-earth orbit satellites, maritime automatic tracking antenna systems, satellite antennas, and critical subsystems.

Beyond hardware equipment, we also integrate hardware, software, and terminal data, establishing shore-based control centers. This comprehensive approach results in a complete maritime satellite application integration service across land, sea, and air.





Rapidtek Technologies Inc.

Contact

Head quarters

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Taipei City, Taiwan

Point of Contact

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service@rapidtek.net

Website

<https://www.rapidtek.net/>

Professional Fields

Testing and Equipment,
Components and Parts,
Communication, System
Integration, Satellite
Application Services

Description

Rapidtek Technologies Inc. (TPEX:6980) stands as a distinguished leader in the industry, delivering cutting-edge RF test solutions to a global clientele for numerous years. Our unwavering commitment revolves around guiding clients through the dynamic communication landscape, helping them achieve their objectives. Rapidtek accomplishes this by offering advanced AESA solutions, RF FEM modules, comprehensive RF systems that include LEO user terminals and communication payloads, and MP RF test solutions (conductive/OTA). Additionally, we take pride in our adherence to rigorous quality standards, holding certifications such as ISO 9001, ISO 14001, and ISO 27001. For more information about Rapidtek and our extensive range of solutions, please visit www.rapidtek.net.

Product/Service Highlights

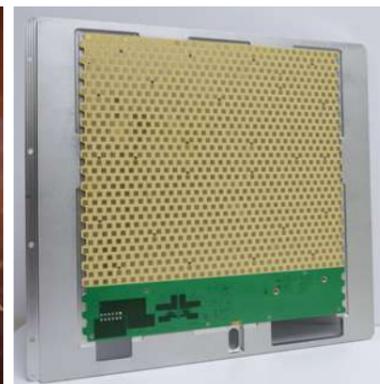
Rapidtek excels in AESA designs and RF testing, boasting an Advanced RF R&D Center and CubeSat Integration Lab. Our product lineup, featuring user terminals, phased array antennas, and converters, provides customizable, high-performance connectivity for diverse multi-orbit applications. Leveraging the "Fast Beam Switching Algorithm," our satellites adeptly control antenna units, concentrating energy, minimizing interference, and efficiently transmitting focused energy to designated receiving stations.



The Advanced RF Testing Chamber with Phased Array Antenna Module.



The Low Earth Orbit 3U Cube Satellite of Rapidtek.



The Phased Array Antenna Module for LEO User Terminals.



Rohde & Schwarz Taiwan Ltd.

Contact

Head quarters

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Point of Contact

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schwarz.com

Website

<https://www.rohde-schwarz.taipei/>

Professional Fields

Testing and Equipment

Description

In view of the development of the Asian market and the importance of Taiwan in the field of wireless communications, Rohde & Schwarz officially established a base in Taiwan in July 2003 - Taiwan Rohde & Schwarz Co., Ltd. We hope to leverage the advantages of Taiwan to connect the established bases in Asia more closely, introduce the latest German technology to all Rohde & Schwarz users, and build a complete Asian technical service network. Currently, Rohde Schwarz Taiwan has a complete service team with functions such as business, marketing, finance, product maintenance, calibration experiments, technical support, business administration, etc. Team cooperation and instant contact are the greatest guarantee for quality service to customers.

Product/Service Highlights

T&M solutions for designing, evaluating and producing latest generation satellite systems.

The satellite industry provides leading-edge solutions for communication, navigation, remote sensing, surveillance and earth observation. Operating in the hazards of space, satellites are subject to the most challenging technological standards and requirements. Smart test and measurement solutions from Rohde & Schwarz ensure flawless performance and reliable safety and security on every level - from testing subsystems, assemblies and components to validating the performance of ground station terminals and in-orbit service.

R&S®SMW200A Vector Signal Generator



R&S®FSW Signal and Spectrum Analyzer





SATORO SATORO Taiwan Inc.

Contact

Head quarters

11th Floor, No. 116, Section 1,
Xintai 5th Road, Xizhi District,
New Taipei City

Point of Contact

Sam Huang / COO
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sam.huang@satoro.space

Website

<https://www.satoro.space/>

Professional Fields

System Integration, Satellite
Application Services, Satellite
Launch Services

Description

SATORO Taiwan Inc. is an integrated manufacturer of CubeSat, empowering your mission success in space through universal and agile satellite solution. Our company make diverse range of clients success by our reliable In-Orbit Demonstration/Verification (IOD/IOV) service.

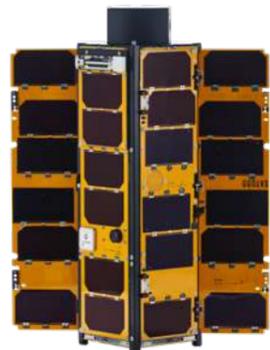
Product/Service Highlights

SATORO offering our customers the following services based on our own CubeSat bus platform:

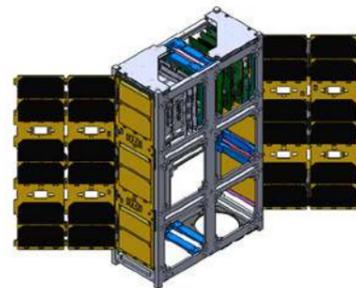
1. Rideshare Service: Assisting Customers in obtaining Space Heritage with our highly Successful Assembly, Integration, and Testing (AIT) experience.
2. In-Orbit Mission Operation Service.
3. Launch Management Service.

SATORO also provides the following products:

1. 3U-16U CubeSat Bus Platform.
2. Flight Software in Satellite.
3. Mission Control Software in Ground Station.
4. Deployable Solar Panel.
5. Payload Data Handling Module.
6. Satellite Structure.
7. Design, Analysis, Manufacturing, and Testing of Electronic and Mechanical Components.



Taurus 3U



Taurus 6U



Mission Control Software in Ground Station



Smart Frequency Technology Inc.

Contact

Head quarters

2F-3, No.185, Kewang
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325, Taiwan

Point of Contact

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Catherine.Lee@sfreq.com

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<https://www.sfreq.com>

Professional Fields

Testing and Equipment,
Communication, System
Integration, Satellite
Application Services, Research
Institute

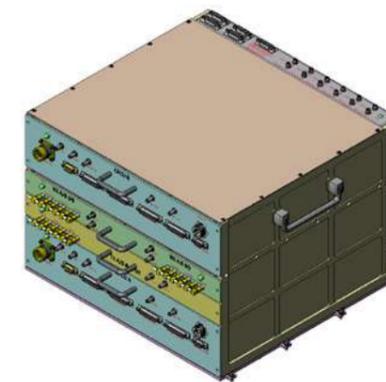
Description

Smart Frequency Technology Inc. dedicated for the promotion of land, ship-borne, coastal, and space RADAR (SAR), communication, Internet of Things (IoT), and energy storage technologies.

1. Base on established logistics support system to provide high-quality MIT solutions.
2. Customized production tailored to meet commerce-grade, industrial-grade, military-grade, and space-grade requirements.
3. Provide high quality wireless communication products, RADAR system, SAR electronics system, and smart energy storage system.

Product/Service Highlights

1. Wireless communication products:
 - (1) Kinds of products in various frequency bands, portable/base station configurations, wide/narrowband options, and application scenarios encompass military, aviation, space and more.
 - (2) Providing ultra-long-range communication, transmissions in tough environments, and ensuring secure encrypted message exchange.
2. SAR electronics system:
 - (1) Entirely designed and manufactured in Taiwan.
 - (2) Customized design and production capabilities.
3. Smart energy storage system:
 - (1) Equipped with high safety lithium iron phosphate battery module.
 - (2) From portable, household to large industrial/commercial systems.



SAR electronics system



Smart energy storage system



Taiwan Aerospace Corporation (TAC)

Contact

Head quarters

5F., No.143, SEC. 1,
CHONGQING S. RD.,TAIPEI
100,TAIWAN

Point of Contact

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Website

<https://en.tacaviation.com.tw/>

Professional Fields

System Integration, Satellite
Application Services, Satellite
Launch Services, Research
Institute

Description

Taiwan Aerospace Corporation (TAC) was inaugurated in September of 1991 and, In 2006, due to the end of the IDF production and a recession in the international aerospace sector, the TAC decided to transform itself as a holding company, focusing on managing its investment targets and performing investment evaluation for aerospace industries.

TAC's major shareholders include the National Development Fund (holding 49% of shares), financial institutions (35%), and other private enterprises (16%). Its investments cover aerospace and satellite industries.

TAC's major businesses are centered on exploring and investing in manufactures that produce key components, modules, and subsystems for satellites, as well as providers that offer system integration, application, and service in the same domain, with a potential to acquire flight heritage.

Our vision is to integrate technical resources in official and scientific research institutions as well as legal entities with financial resources of investment companies, aiming at boosting strategic cooperation of technology, business, management, and finance through investments, providing consulting and investment services for targeted companies to reach their goals in commercial market positioning, and cultivating targeted leading companies that are spearheading the development of aerospace and satellite industries.

Product/Service Highlights

TAC is currently investing in 5 enterprises, including:

- I. Air Asia Company Limited
- II. Apex Aviation Inc.
- III. Link Wave Aerospace Technology Inc.
- IV. Advanced Material Systems Corporation
- V. Aegiverse Company Limited



Taiwan Auto-Design Co. (TADC)

Contact

Head quarters

11 F., No. 68, Sec. 2, Xianmin
Blvd., Banqiao Dist., New Taipei
City 220695, Taiwan (R.O.C.)

Point of Contact

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Marketing & Public Relations
Assistant Manager
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Website

www.cadmen.com

Professional Fields

Testing and Equipment, System
Integration

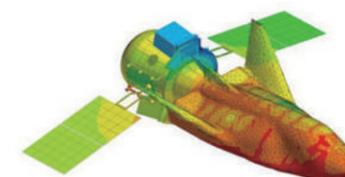
Description

Taiwan Auto Design Co. (TADC) was founded in 1980, is one of the earliest CAD/CAM/CAE companies in Taiwan. Since 1992, TADC has been allied with Ansys Inc to provide front-line technical services and support, teaching more than 5,000 students each year. In 2021, We was approved by the Taipei Exchange (TPEX) to register our stock (stock code 6791), which is the first CAE solution supplier in Taiwan.

Product/Service Highlights

1. Engineering Simulation Solutions
 - Ansys (A Leading Brand of CAE Multiphysics Simulation)
 - RecurDyn (CAE Software of Multi-Body Dynamics Simulation)
 - Flownex (System Level CFD Simulation Software)
 - Sigmasoft (High-Tech Injection Molding Simulation Software)
 - Rescale (High Performance Computing Cloud Simulation Platform)
2. Measurement Equipment
 - Polytec (Leader in Optical Measurement Equipment)
 - Gfai (Specialist for Noise and Vibration Measurement Equipment)
3. System Integrated
 - SolidMEN300 (Metal 3D Printer)
 - Octopuz (Robot Programming and Simulation Software)

Ansys



Simulation of Spacecraft Heat Transfer in Space Orbit.



Gfai Noise and Vibration Measurement Equipment



Polytec Optical Measurement Equipment



Taiwan Hodaka Technology

Contact

Head quarters

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Point of Contact

Willa Lin / R&D specialist
+886-6-5050560
willia_lin@hodakatec.com

Website

<https://www.hodakatec.com/en>

Professional Fields

Materials

Description

Founded in 2002, Taiwan Hodaka specializes in aluminum alloy design and development, billet casting, and precision extrusion, with the aim of providing our customers the finest quality aluminum alloy materials. Our one-stop comprehensive manufacturing services can aid customers in quickly producing aluminum samples. Furthermore, our manufacturing facilities include casting experimental line, materials testing laboratory, anodizing experimental line, coupled with automated production lines and traceability management system, enabling us to provide technical integration and rigorous quality controls from alloy development verification to finished product inspection and analysis. We have also obtained internationally quality management system certifications like IATF16949 and AS9100.

Product/Service Highlights

1. Quality standard and advantages of aluminum billet products. Taiwan Hodaka uses high-purity aluminum ingots as the raw materials (Al>99.85%, in contrast to the common 99.70% purity).
2. Aluminum extrusion technology offers the advantages of high productivity and high precision. The extruded aluminum profiles can be solid or hollow shape, tubing, rod or plate.
3. The aluminum alloy are widely used in bicycle industry, Auto/motorcycle industry, Sports/leisure industry, Consumer electronics industry.



High Quality Billet Casting Technology



Extrusion Die Design and Fabrication



According to Customer's requirement to integrate the required post processes Wire rolling, Forging, CNC, Anodizing..etc



Tensor Tech Co., Ltd.

Contact

Head quarters

10F, No. 33, Chengtong Rd., Tucheng Dist., New Taipei City 236039, Taiwan (R.O.C)

Point of Contact

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jordan@tensortech.co

Website

<https://tensortech.co/>

Professional Fields

Testing and Equipment,
Components and Parts,
System Integration, Satellite
Application Services, Research
Institute

Description

Tensor Tech specializes in the expertise of satellite Attitude Determination and Control Systems (ADCS). We offer a range of space-qualified products, from proven subsystems to reliable components with scalable options tailored to meet our customers' requirements.

Leveraging our proprietary reaction sphere technologies, we deliver ADCS solutions that surpass current market offerings in power efficiency and agility. Additionally, we provide ground testing equipment and services, empowering clients to execute their satellite missions successfully.

Our quality management system is certified by ISO 9001, and our products are subjected to rigorous quality assurance processes to ensure consistent quality. With well-trained engineers and easily accessible test facilities, we provide flexible and cost-effective solutions to the global space industry.

Product/Service Highlights

1. Integrated attitude determination and control system for nano and small satellites.
2. Control moment gyroscope for nano and small satellites attitude control.
3. Attitude determination sensors, including sun sensors, inertial measurement units, and star trackers.
4. Ground testing facilities such as ADCS testbed system and mass properties measurement equipment.
5. ADCS-related components, including magnetorquers, attitude and orbit control computers, and laser beacon detectors.
6. Services for the performance analysis of attitude and orbit control systems.
7. Satellite design review and subsystem integration services.
8. Jitter analysis and measurement services.
9. Customized services for the original design and manufacturing of equipment.



FSS-15 Fine Sun Sensor



ADCS-10m Integrated Attitude Determination and Control System



ADCS Testbed



Tron Future

Contact

Head quarters

7F-8, No. 1, Sec. 3, Gongdao
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(R.O.C.)

Point of Contact

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Website

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Professional Fields

Communication, System
Integration, Satellite
Application Services

Description

Tron Future Tech, the major supplier of TASA, based on AESA core technologies, is the fastest-growing Defense/Space Tech company in Taiwan. In Defense, we offer complete C-UAS solution. In Space, we offer satellite communication and synthetic aperture radar payloads, and ground user terminals. All design and manufacture are in-house and in Taiwan.

Product/Service Highlights

T.SpaceHub B5G

A highly integrated phase array system in LEO. K and Ka bands DL/UL signals with a minimum 30° elevation angle. The frontend module is a switchable circularly polarized antenna array, and the software-defined modem supports variants of DVB-S2X and 3GPP NTN for satellite.

T.SpaceHub Mini

A high-speed X-band phased array LEO transmitter. It offers CCSDS compliant QPSK / 16APSK (configurable) modulated downlink operating in the EESS band and enables maximum 800 Mbps downlink.

T. SAR

A satellite AESA synthetic aperture radar provides 24-hours all-weather earth environmental and disaster observation. T.SAR can make agile multi-beam beamforming to support wide-swath high-resolution space-to-ground imaging.



Vertical integration - from semiconductor to system design.

Reliable and miniaturized system design.

Reliable and fast service & supply



U&U ENGINEERING INC.

Contact

Head quarters

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R.O.C.

Point of Contact

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Senior Program Manager
+886-2-27015736
jo.chang169@uuei.com.tw

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<https://www.uuei.com.tw/>

Professional Fields

Testing and Equipment,
Components and Parts,
Materials, Communication,
System Integration

Description

U&U ENGINEERING, as a system integrator of high-tech microwave, optoelectronics, electronics, and national defense technologies, we specialize in providing Leading-Edge technology and support for governments and commercial industries. Our engineers work to provide upgrades, product maintenance and repair. And, we invest heavily in R&D to develop new technologies for our customers. Also, we act as consultants and global agents for many of the industry's biggest companies.

Product/Service Highlights

U&U ENGINEERING, as a professional global agent, we work with world-wide companies to provide our customers modern products and logistic supports for C4ISR solutions and Optomechanical System.

The E/O Business Group of U&U Engineering is one of the few domestic companies specializing in infrared IR Imager (SWIR, MWIR, LWIR), Laser Range Finder (LRF) and Designator module design, R&D, production, maintenance, Electro-Optic stability platform with image tracking system integration (EO Stabilized Surveillance & Tracking System). We provide customize Electro-Optic products, electro-Optic related system engineering, IR Imager module manufacturing, LRF & Designator module manufacturing, and we also provide system integration and testing service.

UMFR-TFK

微波車流量偵測雷達

採用調頻連續波目標偵測技術
· 專精於蒐集道路流通的車流量資訊。偵測距離達76米遠，
斷面可達8車道。



Universal Microwave FMCW Radar Series



Short Wave-Infrared Cameras



Universal Microwave Technology, Inc.

Contact

Head quarters

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Keelung City, Taiwan 206

Point of Contact

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Professional Fields

Testing and Equipment,
Components and Parts,
Communication, System
Integration, Satellite
Application Services

Description

Universal Microwave Technology, Inc. (UMT) is a highly experienced company in Taiwan with over 800 employees and delivering 300+ projects annually. UMT specializes in customized microwave and mmWave passive components, antennas, cable assemblies and precision machinery parts with great tolerance, supplying diverse industries, including wireless communications, aerospace, defense, satellite communications. By investing in advanced technology such as a terahertz lab, mmWave antenna chamber and AS9100, UMT showcases the commitment to innovation. Benefiting from the center of high-tech location and a skilled workforce, UMT has high vertical integration capability. UMT is a worldwide recognized supplier for high reliability, quick responsiveness, and competitive solutions.

Product/Service Highlights

UMT's fast/ precise design along with stable mass production, leads to excellent quality and competitive prices that can satisfy customized requests. We offer one-stop solution of Microwave/ mmWave for telecommunications, SATCOM and LEO, from design, prototyping, to massive production with time and budget cost effectiveness. UMT is well experienced to build-to-print/build-to-spec for LEO, offering a wide range of solutions and broadband options such as C, X, Ku, Ka, V, and E band etc.

1. Passive microwave/ mmWave components
2. Antennas
3. mmWave cable assembly
4. Precision machined part



OMT/ Polarizer



Diplexer



Waveguide Antenna



EM-WAVE APPLICATIONS:
ANTENNA/RADAR/TEST RANGE
DESIGN & IMPLEMENTATION/
VERIFICATION & OPTIMIZATION

WaveFidelity Inc.

Contact

Head quarters

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Dist., Taoyuan City 334696,
Taiwan

Point of Contact

Ike Lin / Director
+886-3-3689130
Support@wavefidelity.com

Website

https://www.wavefidelity.com

Professional Fields

Testing and Equipment,
Communication, System
Integration, Satellite
Application Services

Description

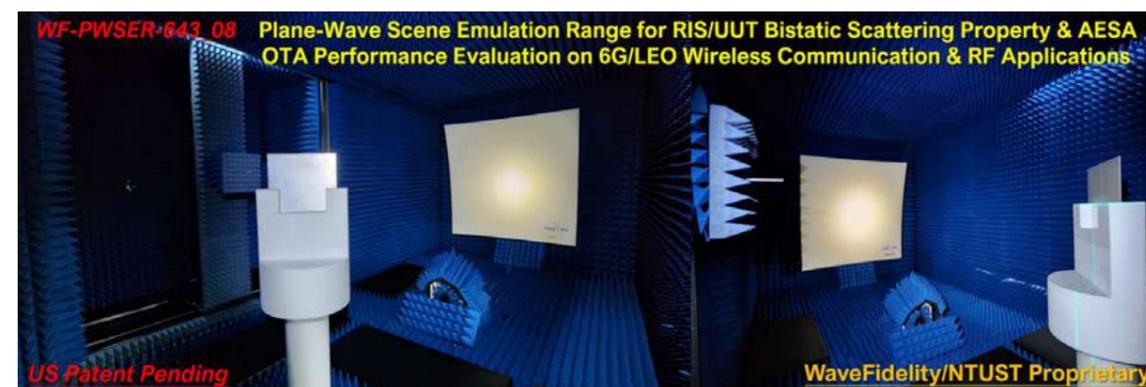
WaveFidelity Inc., officially founded in 2017, with expertise over 10 to 38 years experiences in EM-Wave Measurement & Applications on Test Range Implementation, Antenna Performance Qualification and Optimization, Near-field to Far-field RCS Algorithm, Synthetic Aperture Radar Echo Emulation, and Remote Sensing Technologies, and beyond.

Active member of international organizations, e.g., IEEE AP, IEEE GRSS, IEICE SANE and AOC.

Member of Taiwan National Defense Industry Development Association, Taiwan UAS Development Association, and Taiwan Space Industry Development Association.

Product/Service Highlights

Services and Products include: Passive/Active Phased Array Antenna Qualification and Optimization, Test Ranges Implementation and Optimization for Antenna / Radar / RCS Qualification and Applications, Synthetic Aperture Radar Echo Emulator and Processor, Near-field to Far-field RCS Transformation Package, Hybrid mmWave Radar, Fast Ground Based SAR, and Solutions of Counter-UAS & Homeland Security Surveillance. Distributor & Technical Support of NSI-MI Technologies based in Taiwan; Rep of Fortem Tech, iRadar, Fine-Group, and Jorjin Tech. Versatile Customers from Military, Coastal Guard, Academic Institutes, and Industrial Sectors.



Plane-Wave Emulation Range for UUT Bistatic & AESA OTA Property Tests over modulated RF Carrier using Nearfield Scanning upon CR-built Phase Reference



YTTEK Technology Corp.

Contact

Head quarters
3F., No.186, Sec. 1st, Wenxing Rd., Zhubei City, Hsinchu County, Taiwan

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sales@yttek.com

Website
www.yttek.com

Professional Fields

Testing and Equipment,
Communication, System
Integration, Satellite
Application Services

Description

Renowned for wireless communication and satellite interfacing, YTTEK excels in adaptability and autonomous design. Specializing in millimeter-wave technology, the company compresses product development cycles, focusing on satellite, HAPS, and vehicular connectivity. With expertise in algorithm design, channel measurement, and signal analysis, YTTEK addresses interdisciplinary challenges, integrating low and high-frequency systems through algorithms. The company's proficiency enables precise measurement, efficient waveform generation, and accurate validation of millimeter-wave systems, spanning from low-frequency WiFi to high-frequency millimeter waves.

Product/Service Highlights

YTTEK dedicates to flexible, cost-effective, and quality wireless communication solutions. Emphasizing end-to-end services for optimal performance, reliability, and added value. YTTEK focuses on perpetual innovation and seamless system integration for interconnectivity in diverse environments. Seeking collaborations for groundbreaking communication solutions, explore our portfolio for agile and cost-effective development. Emphasizing multi-domain application, YTTEK offers flexible products to revolutionize wireless communication in satellite, HAPS, vehicular, and related sectors.



YTTEK's Core Technology and Testing solution

YTTEK's ecosystem of your wireless communication world



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