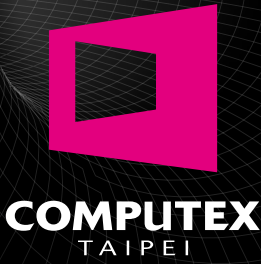


May 30 – June 2, 2023

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COMPUTEX 2023 TAKEAWAY



COMPUTEX Keynote Accelerate Everything

CEO Charles Liang on Accelerating AI and Green IT

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Organizers: TAITRA



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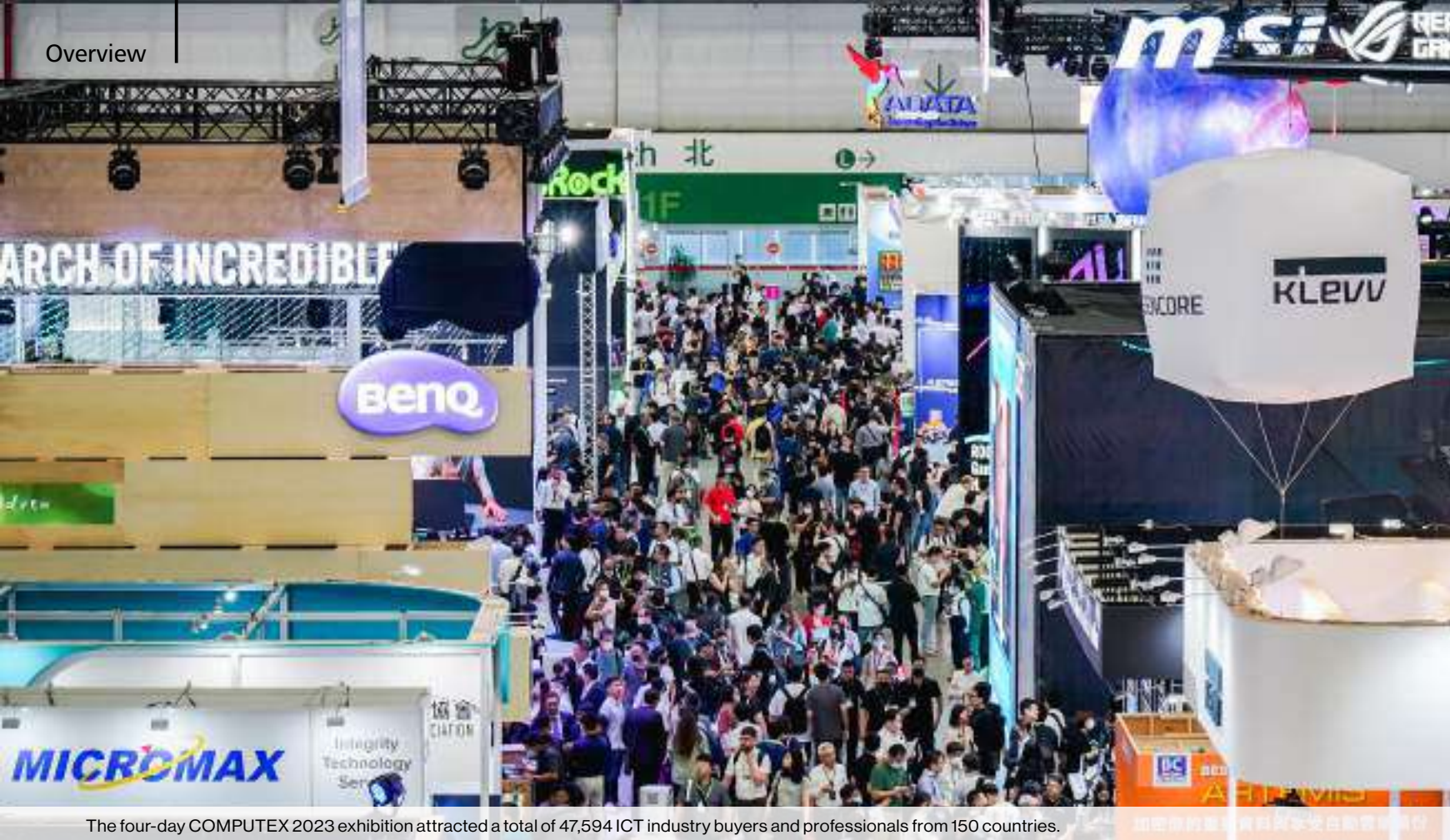
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The four-day COMPUTEX 2023 exhibition attracted a total of 47,594 ICT industry buyers and professionals from 150 countries.

Smarter and Greener: COMPUTEX 2023 introduced a Technologically Driven Sustainable Future

With over 3,000 booths across three floors of the Nangang Exhibition Center, COMPUTEX returned in all its glory in 2023. After moving online for two years during the COVID pandemic and running a hybrid show last year, this year the world-famous trade show welcomed thousands of international visitors in person once again. Running from May 30 to June 2, at any time there were around 10,000 people visiting the exhibition. These visitors were able to connect with 1,000 tech companies and peruse their latest products, including big players from Taiwan such as Acer, Asus, ASRock, Gigabyte, and MSI.

COMPUTEX organized their booths into 14 different categories across the first, third, and fourth floor of Nangang Exhibition Center Hall 1. Beyond diverse product displays, the trade show also included engaging activities such as the COMPUTEX Forum and keynotes from some of the world's leading tech companies, including NVIDIA, Qualcomm, NXP, Acer, and Supermicro. COMPUTEX 2023 centered around six main themes: high performance computing, artificial intelligence applications,



Visitors tried out the newest VR technology products.

hyperreality, innovations and startups, next-gen connectivity, and sustainability. Of these themes, AI applications and sustainability seem to be the biggest trends across the exhibition.

Creating Together with Artificial Intelligence

COMPUTEX's slogan this year was "Together we create," referring to the ability of human-AI



MSI Stealth 16 Mercedes-AMG Motorsport

collaborations to create new ideas. This theme was established even before the exhibition opened, by James Huang, the Chairman of the Taiwan External Trade Development Council (TAITRA), during the COMPUTEX Global Press Conference, and by Jensen Huang, the CEO of NVIDIA, during his keynote speech on May 29. James Huang spoke of the advantages of working with a smart power, while Jensen Huang announced new AI technology for NPCs in gaming.

Within the COMPUTEX 2023 exhibition, there were numerous examples of new AI-embedded technologies that make our lives more efficient. These included updates to AI surveillance and AI recognition that help us to stay safe and organize video data. The connectivity company ATEN announced updates to their smart manufacturing solutions as well as a new, lifelike AI voice. Three floors above



ASUS Zenbook 13

ATEN, AiQ displayed their newly designed smart clothing, which has applications for sports and healthcare.

Advances in smart healthcare are perhaps the best examples of the power of AI to improve society. In their exhibit, Gigabyte displayed a "Smart Fall Detection System," which tracks patients' movement and alerts medical professionals if they fall. Acer also showed updates in smart healthcare, including facial recognition systems that predict mood changes and AI-assisted software that speeds up the diagnosis of patients.

Turning COMPUTEX Green, Literally

As climate change continues to threaten the planet, sustainability is a common goal across industries. This year not only did COMPUTEX organizers TAITRA and the Taipei Computer Association make sustainability a mission for the exhibition, but exhibitors focused on sustainable products. The idea of going green even extended to the design of many booths, which included a plethora of plants (some real, some fake). Surrounded by the glowing lights of RGB, these bursts of green reminded visitors of the importance of caring for our planet.

COMPUTEX always includes the launch of new laptops, and this year sustainable laptops were highlighted with the Sustainable Tech Special Award. These include the Acer Aspire Vero 15, which is made with 40% post-consumer recycled plastics for the chassis and 50% for the keypads. Also winning this award, the ASUS ExpertBook B9 boasts up to 70% being made from a post-industrial recycled Mg-Li alloy. ASUS also displayed their latest carbon neutral laptop, the Zenbook 13, which uses post-industrial recycled metals,

post-consumer recycled plastics, and ocean plastics to make its various parts.

Those companies which have international sustainability certifications were marked with a special "ESG GO!" sign, including ASUS, Gigabyte, BenQ, and Acer. COMPUTEX also worked with Acer to launch the Earth Mission App, which helps users build sustainable living habits. When visitors downloaded the app, they could complete several COMPUTEX-related sustainability tasks to receive prizes.

Immersive Gaming: Better, Faster, Stronger

Beyond sustainable laptops, COMPUTEX 2023 included an all-new lineup of gaming laptops. Some of these stood out for their unique design, such as the Stealth 16 Mercedes AMG Motorsport, a gaming laptop released by MSI in partnership with Mercedes. It looks like what you might expect if you asked AI to create a laptop inspired by a racecar.

As gaming PCs get more advanced, CPUs SSDs, and GPUs keep getting hotter,



Three visitors looked at a product at COMPUTEX 2023 in Taipei.

demanding new cooling solutions. A leading PC case company, Thermaltake unveiled their new centralized thermal efficiency (CTE) chassis, the CTE C750 Full Tower Chassis Series. This CTE series rotates the motherboard 90 degrees, giving the CPU and graphics card independent airflows. Plus, it can come preinstalled with ARGB cooling fans for those gaming vibes.

Maintaining a Presence in Two Worlds

During the pandemic, COMPUTEX used the latest in connectivity technologies to bring us together with online events and activities. While this year's exhibition welcomed thousands of international visitors in person once again, COMPUTEX maintained several online aspects. These included livestreams of the COMPUTEX Forum and keynote speeches, as well as daily CXP On Air programs that brought viewers highlights of the exhibition and tours with some of the biggest exhibitors. By maintaining both physical and virtual activities, COMPUTEX 2023 was able to welcome even more visitors to their world-famous trade show.



Anchor and influencers shared details of COMPUTEX 2023 with the rest of the world through the exhibit's "Live Studio" program livestreamed on YouTube.

COMPUTEX 2023 Global Press Conference

Worldwide Leaders of the Technology Industry Gathered to Step into the Future

Uniting under the theme “Together We Create,” more than 1,000 leading technology companies from around the world gathered for COMPUTEX 2023. The exhibition ran from May 30 through June 2 and took place in Hall 1 and Hall 2 of the Taipei Nangang Exhibition Center. It featured over 3,000 booths representing manufacturers from 26 different countries and regions. On Monday, May 29, the event organizers, the Taiwan External Trade Development Council (TAITRA) and the Taipei Computer Association (TCA), hosted a global press conference to connect with world media. James Huang, the Chairman of TAITRA, was joined by Paul Peng, the Charmain of TCA, to introduce the themes and activities of COMPUTEX 2023.

“Taiwan is a key place for the world’s development of semiconductors,” said Chairman Peng. “The strengths and advantages of Taiwan’s ICT industry are the combination of engineering technology, mass production capabilities, and timely delivery to meet the needs of global buyers.”

Commenting on Taiwan’s role in the rise of AI, Chairman Huang said, “Taiwan has always been a strong player in the globalizing industry. By riding on our long-term foundation of speed, quality, and creativity, we are not only ready

to join the AI age, we are ready to lead it... Today is a big day as we stand on the edge of the AI revolution. COMPUTEX is ready to help you explore the new tech ecosystem in the age of AI.”

Integration of the Exhibition's Six Main Topics

COMPUTEX 2023 focused on six main topics: innovations and startups, high-performance computing, artificial intelligence applications, next-generation connectivity, hyperreality, and sustainability. Highlighting the innovation of groundbreaking startups, COMPUTEX included the specialized exhibition InnoVEX. This exhibit hosted 400 startups from 22 different countries. “This is one of the largest platforms in Asia that brings together top startups, crowd funding initiatives, and accelerators,” said Huang.

Both Huang and Peng spoke on the rise of AI technologies. “There has been a surge of global attention on the applications of artificial intelligence,” said Peng, “which has driven procurement demand for “HPC” and various AI applications.” In addition, Huang expressed the ability of people, technology, and AI to work together for the betterment of society. “[AI] changes everything we know,” he said, “before only humans could innovate, now with AI, we have a smart power to create with for

the first time in history.” COMPUTEX 2023’s slogan, “Together We Create,” references the power of human-AI collaborations to create new ideas.

As environment protection has become a common goal across borders and industries, the 2023 exhibition integrated technology and sustainability. “We are working to make COMPUTEX a green event,” said Huang. Peng explained how COMPUTEX encouraged booth organizers to provide electronic and digital information instead of paper-based displays and use more recyclable materials.



TAITRA Chairman James Huang and TCA Chairman Paul Peng discussed digital resilience for the global ICT industry at the COMPUTEX 2023 Global Press Conference.

Furthermore, the booths of those exhibitors who have obtained international sustainability certifications were marked with an ESG GO! sign, displaying their commitment to international ESG standards.

TAITRA also cooperated with Acer to launch the Earth Mission app, which helps users build green habits and eco-friendly behaviors. Based on the number of people who downloaded this app during COMPUTEX 2023, the non-profit organization, One Tree Planted, cooperated to plant a corresponding number of trees in the Amazon rainforest. Additionally, the 2023 COMPUTEX Forum included the event “Sustainability – Race to Zero,” which delved into the essentials of achieving sustainable net-zero and explores case studies from technology companies.

COMPUTEX Brought Together Experts to Discuss Future Technology Trends

The highly anticipated COMPUTEX keynote speakers included Jensen Huang, the Founder and CEO of NVIDIA, Alex Katouzian, SVP & GM, Mobile, Compute, XR (MCX), and Kedar Kondap, SVP and GM, Compute and Gaming from Qualcomm, as well as Rafael Sotomayor, EVP and GM, Secure Connected Edge from NXP Semiconductors, Jason Chen, Chairman



& CEO of Acer, and Charles Liang, Founder, President and CEO of Supermicro.

For the COMPUTEX Forum, speakers were invited to discuss key technology topics such as the metaverse, semiconductors, and sustainable development. The speakers included senior executives and expert representatives from domestic and international companies such as Ampere Computing, Arm, ASUS, Delta, Lenovo, Intel, KIOXIA, NVIDIA, NXP, SIEMENS, Solidigm, STMicroelectronics, Supermicro, TAICCA, and Texas Instruments.

There were also a variety of activities during the exhibition, such as guided tours, CPX on Air with live broadcasts during the show, Tech'em High for buyers' happy hour, start-up pitches, start-up investment forums, procurement meetings, and more.

COMPUTEX showcases Taiwan's industrial strength and connects international manufacturers, global technology players, start-up teams, and professional buyers. It is an ideal platform to present the development of the global technology ecosystem.



COMPUTEX 2023 Opened with the World's Best Igniting the AI Craze

President Tsai Ing-wen and TAITRA Chairman James Huang open COMPUTEX 2023 together with other distinguished guests.

COMPUTEX and InnoVEX 2023 began on May 30 in halls 1 and 2 of the Taipei Nangang Exhibition Center. President Tsai Ing-wen, EU Growth Agency Deputy Director-General Maive Rute, Taiwan External Trade Development Council (TAITRA) Chairman James Huang, and Taipei Computer Association (TCA) Chairman Paul Peng attended the opening ceremony.

This year was the first fully in-person COMPUTEX held since the pandemic. "COMPUTEX brings together the ICT industry's upstream, midstream, and downstream companies from home and abroad. It is one of the world's most iconic technology events," President Tsai Ing-wen said. "The pandemic has promoted the rapid development of the digital economy, and Taiwan has gradually emerged from the haze of the pandemic. Next, we must build on a solid technological foundation to embrace the recovery in the post-pandemic era and let Taiwan move toward the next generation of high-tech development."



President Tsai Ing-wen delivered a speech at the COMPUTEX 2023 opened Ceremony.

TAITRA Chairman James Huang said that as a leading global ICT and computing technology exhibition, COMPUTEX has witnessed major

breakthroughs in human technology for more than 40 years. "Humans are standing at the turning point of the fourth industrial revolution," he said. "The key to artificial intelligence is computing power. Therefore, we redefine COMPUTEX as 'Computing Techs,' which is the most important platform for driving computing power in the AI era."

COMPUTEX Focused on Cross-Border Cooperation In the ICT Industry and Outlines a Blueprint for Industry Trends

This year, COMPUTEX launched a new motto, "Together we create," focusing on high-performance computing, AI applications, next-gen connectivity, hyperreality, innovations and startups, and sustainability. Over 1,000 exhibitors participated from 26 countries and regions, including the US, South Korea, Canada, France, Japan, Belgium, and Italy. Major exhibitors included Acer, ADATA, ASRock, ASUS, BenQ, Delta, ESSENCE, GIGABYTE, G.SKILL, Hanmi, Micronics,

InWire, Innodisk, Kioxia, MSI, Pro Gamersware GmbH, Quanta Cloud Technology, Realtek, Supermicro, Thermaltake, Transcend, YFC-BonEagle ELECTRIC Co., Ltd., ZOTAC, Aten, AIC Inc., Chenbro Micom, Posiflex, Seasonic, PNY Technologies, Team Group, Ingrasys, and more, demonstrating the energy of the global technology ecosystem.

With the opening of national borders, international visitors were excited to participate in COMPUTEX for the first time in three years. More than 20,000 people from 120 countries registered to visit. To strengthen the connection between Taiwanese industry players and international buyers, and to expand opportunities for international cooperation, COMPUTEX held several matchmaking activities, including COMPUTEX procurement meetings, global ICT industry government procurement meetings, Taiwan-EU business and industry cluster matchmaking meetings, and European Bank ICT procurement meetings. In addition, representatives from the EU Growth Agency



President Tsai Ing-wen visited the SUPERMICRO booth to hear about the latest in information technologies.

and the European Bank for Reconstruction and Development led a delegation to visit COMPUTEX, and representatives of industry associations such as the Mumbai Information Association in India and the Ho Chi Minh City Computer Association in Vietnam also organized buyer groups to visit COMPUTEX. It was the first time since 2019 that people from all over the world were able to interact in Taiwan once more.

organized national pavilions—Belgium, Brazil, France, Italy, Japan, Israel, the Netherlands, and Poland—while the European Bank for Reconstruction and Development led teams from Greece, Romania, and Egypt. The Epoch Foundation and FarEasTone Telecom Startups Accelerator also led startups to participate from the 5G/IoT, AI/data, smart device, and other fields.

To connect Taiwan with the global startup ecosystem, InnoVEX held a series of activities, including the InnoVEX Pitch Contest, to help international corporate venture capital connect with target startup teams. Global Demo Day also showcased innovative solutions from different regions, while "What's New: Future Technology and the Next Startup Trends" analyzed the international startup ecosystem and discussed technological innovations such as AR, VR, and AI.

COMPUTEX 2023 and InnoVEX 2023 exhibited in halls 1 and 2 of the Taipei Nangang Exhibition Center respectively, showcasing leading technological trends, industrial applications, and the latest solutions.

For more show information, please visit the official websites below:















Innovex Showcased Technological Creativity While Strengthening Local Innovation and International Links

InnoVEX 2023 joined hands with 400 startups and technology elites from 22 countries to showcase their diverse creativity. Eight countries

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COMPUTEX Keynote

Date	Time	Topic	Replay	Speaker	
MAY 29 (MON.)	11:00 - 12:30	COMPUTEX Opening Keynote		 Jensen Huang CEO and Founder NVIDIA Corporation	
MAY 30 (TUE.)	11:00 - 12:00	Qualcomm Keynote: A New Era of Intelligent Computing		 Alex Katouzian SVP & GM, Mobile, Compute, XR (MCX) Qualcomm Technologies, Inc.  Kedar Kondap SVP & GM, Compute and Gaming Qualcomm Technologies, Inc.	
MAY 31 (WED.)	09:00 - 10:00	NXP Keynote: Shaping Ecosystems to Master Complexity		 Rafael Sotomayor EVP and GM, Secure Connected Edge NXP Semiconductors	
JUNE 1 (THU.)	09:00 - 10:00	Acer Keynote		 Jason Chen Chairman & CEO Acer Incorporated	
	13:30 - 14:30	Supermicro Keynote		 Charles Liang Founder, President and CEO Super Micro Computer, Inc.	

Partners' Event: Arm Keynote

Format:  Onsite Only

Date	Time	Topic	Speaker	
MAY 29 (MON.)	14:00 - 15:00	Arm Keynote: Defining the Future of Computing, Together	 Rene Haas CEO Arm	



NVIDIA Brought the Future of Accelerated Computing and Generative AI to COMPUTEX 2023

COMPUTEX 2023 was off to a roaring start on May 29, with an Opening Keynote delivered by Jensen Huang, founder and CEO of the world-leading American tech company NVIDIA, that pressed home how rapid advancements in accelerated computing and generative AI are driving a revolution that promises to impact every corner of the industry and beyond.

Speaking for two hours to a packed hall at the international trade show organized by the Taiwan External Trade Development Council (TAITRA), the key theme of Huang’s speech was that dual innovations in accelerated computing and generative AI are enabling NVIDIA’s supercomputers to “write and develop software that is incredible, and that can be deployed in devices all over the world.”

The age of traditional CPU-based computing, in which computing power could be expected to increase tenfold every five years, is now ending.

“Accelerated computing is the path forward,” said Huang in a speech that detailed how the technology has now reached a tipping point and is already being utilized for every kind of application imaginable.

Likewise, AI is characterized by its ability to process and transform information across many different modalities, vastly expanding its range of utilizations and applications.

Huang illustrated the technology’s capabilities with a demonstration of NVIDIA’s new Avatar Cloud Engine, which integrates speech recognition, natural language competence, and facial animations and gestures in response to voice cues to render and animate an unscripted avatar in real time.

This paradigm shift is changing the way we think about the cost of high-performance computing, Huang explained as he introduced NVIDIA’s HGX H100 GPU server platform, “the world’s single most expensive computer for which you can say: the more you buy, the more you save.”

Today’s computing networks are structured on a framework where the data center itself is the computer, which is why NVIDIA are working to extend their advancements in accelerated computing and generative AI to the cloud.

In their vision, “every data center can be an AI data center,” said Huang, which would bring the technology to virtually limitless applications, so that “every industry can now benefit from generative AI.”

He demonstrated with the example of how manufacturing and heavy industries could utilize NVIDIA’s new Omniverse Cloud service, running on Azure from the company’s servers in California, to visualize, design, and simulate a factory floor and production line, with multiple users collaborating from around the world in real time.

In another example, the company announced a partnership with WPP, the world’s largest advertising services agency, to build content generation engines based on the Omniverse platform, which could be used to generate precise advertisements for individual users.

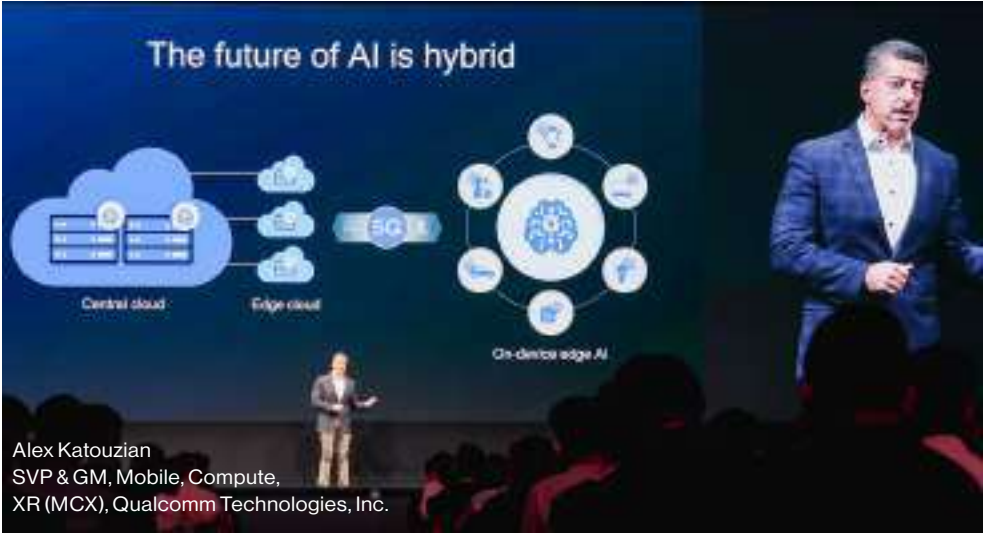
“In the future, when you engage information, much of it will be generated,” Huang said. “The computing model has changed.”

Qualcomm’s Snapdragon to Lead Hybrid AI Revolution

Powerful, On-Device Processors like Snapdragon’s Hexagon will be Needed to Drive Increasingly Ubiquitous AI Applications, Rather than Offloading Every Task to Slow and Costly Data Centers

Artificial intelligence (AI) may be the future of computing, but Qualcomm Technologies Inc. is betting that the future of AI will be hybrid, putting its leading Snapdragon Hexagon processor at the heart of the next PC revolution.

As AI supercharges every kind of application and creates others we have yet to dream of, splitting computation between edge devices and the cloud is “inevitable,” Alex Katouzian, senior vice president and general manager of the Mobile, Compute, and Infrastructure Business Unit at Qualcomm, told COMPUTEX 2023 in a keynote presentation.



“It simply won’t be possible to send everything to the cloud, and for certain applications you won’t want to,” he told a packed auditorium at Taipei’s Nangang Exhibition Center 2 on May 30.

Instead, devices themselves will handle most AI processing, then seamlessly offload to the cloud when complexity increases.

Already, the Snapdragon 8cx Gen 3 with Hexagon can create photorealistic images using stable diffusion on an Android smartphone in under 15 seconds for 20 inference steps—all without an internet connection. And larger models are coming very soon.

The shift will be similar to the evolution in traditional computing from mainframes to desktops and smartphones, Qualcomm Senior VP and GM for Compute and Gaming Kedar Kondap said.

Hybrid AI will not only be faster, but also far cheaper, more sustainable, and secure.

When processing in the cloud, it is estimated that the cost per AI query is 10 times higher than for traditional search thanks to the energy, real-estate, operational, hardware, and other costs needed to run a data center, Kondap said.

Yet when running on a laptop or other edge device, an AI process like stable diffusion can cost as little as nothing, while also using far less power and freeing up cloud bandwidth for more complex tasks.

AI run on a personal device will also learn more about the user over time, creating a more personalized experience to solve each user’s pain points and optimize their workflow.

Last but certainly not least, data processed on-device stays on that device, inherently protecting user privacy and sensitive company information.

Qualcomm has already been working with its partners to create some exciting new AI applications enabled by Snapdragon.

“We are truly at the start of a new computing era,” Microsoft VP of Device Partner Sales Ken Sun said.

Complex AI models are behind programs like Windows Studio Effects, adding background blur, focus, noise reduction, and other features in everyday video calls.

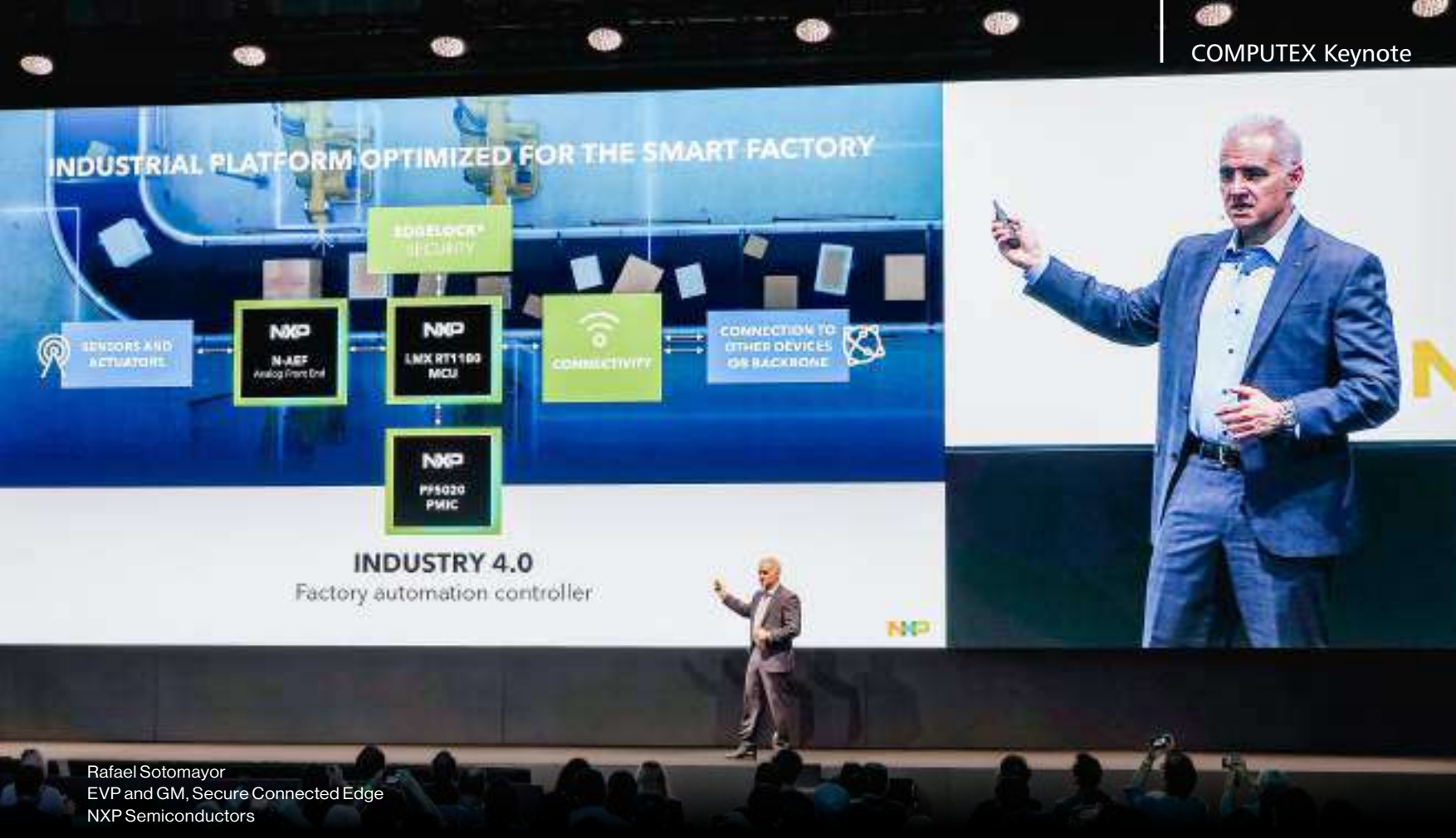
Sun also announced that in June, Microsoft is launching Windows Copilot, a personal assistant



capable of tasks like summarizing a PDF or giving suggestions from only a user query.

Some of the most exciting applications will democratize advanced photo and video editing, with Skylum CEO Ivan Kutatin showing the keynote how Luminar Neo’s “Supersharp AI” is able to bring a blurry photo into focus in only 8.4 seconds, versus 2 minutes on a CPU.

“This is just the beginning,” Katouzian said. “We’re very excited to see how developers are going to take advantage of these platforms and enhance all of their solutions.”



Managing Complexity Means Shaping Ecosystems from the Use Case up

The COMPUTEX 2023 Keynote series continued on May 31 with a presentation by Rafael Sotomayor, Executive Vice President and General Manager of Secure Connected Edge for NXP Semiconductors. Sotomayor spoke about managing complexity, a topic that has come to be of paramount importance for industry leaders today.

Sotomayor began by observing that “the complexity of edge devices is increasing at a faster rate than ever,” which means that new possibilities are constantly appearing on the horizon – but so are new problems to be solved.

It is no longer enough for enterprises to address only the minimum levels of complexity necessary to develop and build products, or those which simply allow companies to differentiate themselves from the competition.

Instead, the importance of unforeseen complexities – disruptions, unpredictable events, and black swans – has risen to the fore, as recently illustrated by pandemics, supply chain issues, security vulnerabilities, and geopolitical issues.

That means that solving complexity today means thinking beyond the chip.

The approach to complexity adopted by NXP has been to focus upon the use case and its evolution, and to launch into driving, shaping, and transforming entire ecosystems from there.

By way of example, Sotomayor told the audience in Taipei that NXP is partnering with two powerful local players, Taiwan Semiconductor and Foxconn, to develop processors which “shape the ecosystem” and “influence the future architecture” of the automotive industry.

Two other areas where use cases will be key to driving ecosystem development are smart factories and smart homes.

Today’s manufacturing industries pose problems for operational efficiency, energy efficiency, and waste reduction – problems which could be solved with flexible automation on factory floors.

To that end, NXP has developed a suite of products, including its i.MXRT1180 and MCX microcontrollers, eIQ machine learning environment, and N-ASF analog front end units, to build an industrial ecosystem optimized for the smart factory. “If you’re in industrial, and

you’re in smart factories,” Sotomayor told the audience, “you need to be talking to NXP.”

Despite the proliferation and increasing uptake of smart devices in all aspects of everyday life, we have yet to achieve truly smart homes.

The true use case here, Sotomayor explained, is not “connected” homes, but “autonomous” homes in which these devices are able to communicate and interface with each other in a shared language.

NXP is responding by building compatibility with Matter, the open-source connectivity standard developed by a group of companies including Google, Apple, and Amazon, directly into its MCUs, and thereby investing in the ecosystem it wants to see in future.

Sotomayor closed by discussing how complexity constantly returns as these different ecosystems begin to converge with one another, for example as smart automotives bridge with mobile devices and IoT-enabled products in the home to create an even richer – and more complex – network.

Making Sustainability Sustainable from End to End

The final day of COMPUTEX 2023 got off to a flying start – or better yet, a racing start – with Chairman and CEO of Acer Jason Chen addressing the audience from atop a bike desk, one of the company's latest product offerings. It was a fitting enough entrance, for the topic of the morning's Keynote presentation was sustainability, and Chen brought a palpably athletic energy to his discussion.

Beginning with the observation that Acer has continually met its sustainability commitments to use 100% renewable energy by 2035 and to reach net zero emissions by 2050, Chen outlined how the company is taking a three-pronged approach to improving sustainability for the planet, for businesses, and for human wellbeing.

Addressing sustainability for the planet, Chen invited Emmanuel Fromont, President of Acer EMEA (Europe, Middle East, and Africa) to the stage. "Sustainability is really about the entire lifecycle of products, from design to retirement," Fromont said.

That's why the company is choosing to ship its products almost exclusively by sea, rather than air, and working with partners to increase the sustainability of its logistical operations by maximizing the use of biofuels.

The company's European stores likewise make use of 100% recycled paper for their



promotional materials, and after-sales services are provided to refurbish and extend the lives of its products.

Vice President of Acer Pan America Richard Black then took the stage to introduce several new consumer and business offerings, including the desk bike from which Chen had begun the presentation, as well as e-bikes, power systems, and charging stations.

Key to the company's thinking about sustainability, Chen said, is the goal of "making sustainability sustainable" and therefore cost effective and value creating.

Acer is promoting sustainability for businesses in two ways: by helping them to strengthen their cybersecurity, and adopting a diverse portfolio of subsidiaries to extend corporate resilience.

Rex Wu, CEO of Acer Cyber Security, explained how business continuity is essential for maintaining sustainability. To that end, the company offers its customers a suite of security tools to protect them against hacks and cyberattacks.

Lastly, sustainability has to be implemented at the level of wellbeing by extending and improving human health.

Chen invited Dr. Allen Lien to share his experiences of how technological developments are changing the way healthcare systems are administered and delivered.

Speaking of his years as a healthcare worker in Burkina Faso, Dr. Lien said that "20 years ago, you'd deploy doctors," to run initiatives, but that "10 years later, you deploy programmers" to build and operate effective health systems.

"This time, you deploy AI", Dr. Lien said, referring to the technology's abilities to analyze patient data and images at scales and speeds beyond the humanly possible.



Founder, President and CEO of Supermicro Charles Liang took the stage at COMPUTEX 2023 to deliver a Keynote outlining the key roles the company is playing in bringing a new era of computing into the present.

"Our Green Computing focus enables Supermicro to design and manufacture state-of-the-art servers and storage systems with the latest CPU and GPU technologies from NVIDIA, Intel and AMD that reduce power consumption," Liang said.

At a time when energy costs are dramatically increasing all over the globe, keeping power consumption down at data centers is crucial for keeping costs low and reducing emissions. That's why Supermicro have been developing innovative cooling solutions for years, which have only become more timely as accelerated computing moves to center stage.

Liang invited NVIDIA Founder and CEO Jensen Huang to the stage to discuss how Supermicro is helping to drive these changes forward. As Huang pointed out, liquid cooling solutions were once considered impractical due to the large size of the units and the spaces they occupied. With accelerated computing condensing greater power into smaller units, liquid cooling becomes a natural and convenient solution.



As many clients were concerned about the safety of liquid coolants and the possibility of leakages, the company has extensively tested its systems to the point where it can guarantee that not a single drop will be spilled.

In many cases, liquid-cooled racks such as Supermicro's Delta Next System are capable of reducing power consumption by up to 40%.

Such differences are crucial at a time when the industry is entering what is "unquestionably the single most important time in our entire careers," Huang said.

Accelerated computing is just one of the two revolutions now in progress – the other is the dawn of generative AI. In this field, too, Supermicro's products are helping push the envelope. With two servers linked together,

NVIDIA uses one to run generative AI and another to model realistic physics: "The two of them will help us create AI for the next era beyond large language models, for heavy industries, manufacturing, autonomous vehicles, battery manufacturing, and chip manufacturing, where everything has to be grounded in physics. This is our virtual world simulator," Huang said.



















Speed and flexibility are also key concerns: the company's MGX Modular system is built on the principle of modularity for multiple applications and a long lifecycle.




























In another innovation, the company has reduced its lead time from three months down to two weeks, while simultaneously increasing its global manufacturing operations up to 4,000 racks per month (and soon to break 5,000 racks per month).





COMPUTEX Forum

Date	Topic	Replay	Speaker
MAY 30 (TUE.)	14:30-16:00 Metaverse-Surreal to Real		
	Racing Towards the Industrial Metaverse		 Greg Estes VP of Corporate Marketing and Developer Programs NVIDIA Corporation 
	Accelerating Digital and Net Zero Transformations with Siemens		 Erdal Elver President and CEO Siemens Taiwan Siemens Limited 
	Innovations & Opportunities for Content Industries in Metaverse		 Alice Chang Deputy Chief Executive Officer Taiwan Creative Content Agency 
MAY 31 (WED.)	10:00-12:00 Chips and Semiconductor Summit- The next Big Leap in Computing		
	Freedom to Innovate – The Arm Neoverse Advantage		 Mohamed Awad SVP/GM, Infrastructure Business Arm 
	Cloud Native Processors: Sustainable Compute Solutions from Edge to Cloud		 Jeff Wittich Chief product officer Ampere Computing 
	Chips and Semiconductor Summit-The next Big Leap in Computing		 Andrew Huang Sr. High End Systems Professional, Board of Director Lenovo Global Technology (Taiwan) Ltd. 

Date	Topic	Replay	Speaker
MAY 31 (WED.)	14:30-16:30 Chips and Semiconductor- Advance Application driven by Semiconductor Technology		
	Making the Future of Embedded Possible		 Sameer Wasson VP and General Manager, Processor BU Texas Instruments Incorporated (TI) 
	Redefined Performance at The Edge Computing for AIoT and Telecom Open RAN Modern Workload Optimization		 Mory Lin VP, IoT/Embedded & Edge Computing Super Micro Computer, Inc. 
	Storage Innovation is Key to Solving Tomorrow's IT Challenges		 Avi Shetty Senior Director of Client Strategic Planning & Marketing Solidigm 
	Advancing the State of the Art in ML Security		 Ali Osman Örs Director, AI ML Strategy and Technologies, Secure Connected Edget NXP Semiconductors 
	Connected, Secure, Edge AI Solutions for a More Sustainable World		 Arnaud Julienne VP of MDG, IoT/AI Competence Centers & Digital Marketing, APAC Region, STMicroelectronics 
JUNE 1 (THU.)	10:00-12:00 Sustainability-Race to Zero		
	Sustaining an Incredible Future		 Samson Hu co-CEO ASUS 
	Flash memory Innovation - 35 years of sustainable growth, and toward the future		 Tomoharu Watanabe Director, EVP and Executive Officer Kioxia Corporation 
	Realizing an Intelligent and Sustainable Future		 Victor Cheng EVP of Infrastructure Business Delta Electronics, Inc. 
	Advancing Sustainability Together: Collaboration for Impact		 Alexis Crowell VP, Sales, Marketing & Communications Group Intel 

The Metaverse: Already Transforming the World as We Know It

Guest speakers from leading companies and organizations in the industry addressed the COMPUTEX Forum on Tuesday afternoon, which was organized on the theme of “Metaverse—Surreal to Real.” The speakers gave presentations illustrating how the metaverse is being utilized to power digitalization, accelerate the reduction of carbon emissions, and host new modes of content creation.

Greg Estes, Vice President of Corporate Marketing and Developer Programs at NVIDIA, opened the forum with a presentation that focussed upon the current drive towards digitalization in multiple industries and demonstrated how NVIDIA is enabling, supporting, and powering this transformation.

Estes illustrated the scope for enterprises situated in various fields and at vastly different scales to benefit from the possibilities opened up by the metaverse, from the level of product design and testing, to production and factory operations, all the way up to complex simulations of city environments, weather patterns, and even planetary and galactic mechanics.

From manufacturing and robotics to retail and healthcare, the realistic simulation of products, processes, and applications offered by a metaverse with true-to-life physics and environments will allow enterprises to rapidly design, test, and optimize their products at a fraction of the cost before bringing them to the real world.

“This is going to require a new set of technologies,” Estes said, including data interoperability, accelerated computing, highly specialized skills, and generative AI, all of which NVIDIA is developing and making available to partners and companies through its Omniverse platform.

President and CEO of Siemens Taiwan Erdal Elver built on many of these ideas in a presentation that introduced Siemens Xcelerator, “an open business platform which helps assist customers to drive their digital



Alice Chang
Deputy Chief Executive Officer
Taiwan Creative Content Agency

transformations linked with their goals to become carbon neutral.”

Whereas previous production models were process-driven and followed discrete, predefined steps, today’s models are powered by data and utilize interlinked processes which allow for flexible decision-making and continuous optimization.

Xcelerator uses the concept of digital twins to simulate products with the aim of optimizing their carbon emissions and functionality, with one study showing that the platform could help save up to 7.5 gigatons of CO2 over the next ten years.



Erdal Elver
President and CEO, Siemens Taiwan
Siemens Limited

Chang explained that the metaverse will need content to generate economic value, and detailed how the technology is being used by Taiwanese creatives in music, film, virtual reality, fashion, and art.

Metaverse ecosystems are already forming, with an alliance of content creators now officially established, but the full integration of content and technology industries remains a challenge for the future, Chang said.



Mohamed Awad
SVP/GM,
Infrastructure Business
Arm



Jeff Wittich
Chief product officer
Ampere Computing

Computing Efficiency Barrier Needs Elastic Solutions

Faced with Complex AI Computations, Legacy CPU Infrastructure Is Quickly Hitting a Wall when It Comes to Cost, Power, and Sustainability. The Answer Is Diversification and Finding Efficiencies at Every Level

The possibilities enabled by artificial intelligence might be endless, but computational power still has limits. As the world buzzes with excitement about the coming AI revolution, those making the hardware to support it are working in overdrive to make sure it can adapt to demand.

Representatives from semiconductor heavyweight ARM, soaring newcomer Ampere, and end-product mainstay Lenovo shared their thoughts on the compute barrier with the COMPUTEX Forum 2023 “Chips and Semiconductor Summit—The Next Big Leap in Computing” on May 31 in Taipei.

Even in the four years since COMPUTEX was last held in full, the pressure on computing infrastructure has skyrocketed. Data generation had grown four-fold from 2019, while at the same time, a slowing Moore’s Law means we can no longer rely on ever-smaller nodes to provide more computing power at reasonable cost.

“And then you’ve got sustainability,” said Mohamed Awad, SVP/GM of Infrastructure Business at ARM. Data centers are already taking up 1% to 4% of all power generated worldwide, and is forecast to reach up to 11% by 2030. “In some places, they’re actually limiting housing development because of the power being used by the local data center,” with West London putting off development until 2035 and Virginia data centers running backup generators just to keep up with daily operations.



Andrew Huang
Sr. High End Systems Professional Board
of Director
Lenovo Global Technology (Taiwan) Ltd.

The response has been a shift toward specialized processing. “CPUs of 2019, they were Swiss army knives. The state-of-the-art was a 28-core device. That was it. You used it for everything,” Awad said. “In the last four years, the ecosystem has flipped that on its head.” Now there are cloud-native CPUs with nearly 200 cores made by Ampere, edge devices optimized for power, and many more, specialized for the growing diversity of use cases from edge to cloud.

Infrastructure is finally adapting to a change in computation that has already been a decade in the making. While scaling up through silicon innovation has worked over the past few decades, the cloud demands a different strategy, Ampere Chief Product Officer Jeff

Wittich said. In the cloud where applications are already spread across many nodes, servers, and cores, “we have a great opportunity to use a scale-out approach in order to deliver increasing amounts of compute performance without increasing power consumption.” This is the idea behind Ampere’s cloud-native CPUs, built to increase performance without guzzling more power.

Yet the most cutting-edge CPU tech cannot be the only solution. Companies like Lenovo, who work with clients to create data centers, are also innovating to solve more immediate challenges. For instance, cooling is a hot topic at this year’s COMPUTEX, as more cores and memory are packed into the same-size package, said Andrew Huang, Senior High-end Systems Professional on the Board of Directors at Lenovo Global Technology (Taiwan). Everyone might be talking about water cooling, but it is not necessarily the most power-efficient solution for every rig. Just like not every person looking to buy a car needs to go from zero to 60 in a few seconds, not every client needs the most cutting-edge cooling system, Huang said.

With the age of AI upon us, it will take more than a different CPU, water cooling, or software to solve power and cost restraints. “I think you have to really reimagine what the infrastructure is and look for efficiencies everywhere,” Awad said. “In the end, what will win is the right compute for the job.”



Sameer Wasson
VP and General Manager,
Processor BU
Texas Instruments
Incorporated (TI)



Mory Lin
VP, IoT/Embedded & Edge
Computing
Super Micro Computer, Inc.

Presenting Innovative Applications of Edge AI in Semiconductor Technologies

In the afternoon on May 31, the 2023 COMPUTEX Forum held its third session, "Chips and Semiconductor – Advance Application Driven by Semiconductor Technology." The session featured five speakers who each presented their respective company's latest in edge AI technology.

First up was Sameer Wasson, the VP and General Manager of the Processor Business Unit at Texas Instruments (TI). His talk introduced what makes TI's AM6x4 vision processors unique and scalable, and how edge AI enhances their effectiveness. Not only did he discuss the applications of edge AI in embedded systems, but also mentioned TI's mission to make this technology available across industries and consumers. "We are accelerating the adoption of edge AI and making it simpler and more adaptable across a variety of equipment and electronics," said Wasson.

The next presentation, "Refined Performance at the Edge Computing for IoT and Telecom Open TAN Modern Workload Optimization," was delivered by Mory Lin, the VP of IoT/

Embedded and Edge Computing at Supermicro. Lin highlighted the enhanced performance of Supermicro's edge computing in devices that are compact, without fans, expandable, and AI-equipped. These devices are like "AI in a box" that can reduce costs and increase efficiency. Furthermore, Lin mentioned how Supermicro invites consultants to help clients find the most optimal business solutions by using edge AI technology.

Lin was followed by Avi Shetty, the Senior Director of Client Strategic Planning and Marketing for Solidigm. He presented Solidigm's innovative edge AI software for PC data storage and management, Solidigm Synergy. This software helps manage data storage and retrieval for the PC user. "The system knows you and knows your unique behavior, and proactively fetches files before you ask," Shetty explained. Solidigm Synergy uses edge AI to learn the user's specific behavior, helping them find files and launch applications more efficiently.

Then came Ali Osman Örs, the Global Director for AI ML Strategy and Technologies at NXP. He

discussed the value of hybrid cloud-connected edge technology, as well as new advances in security for machine learning (ML) software. "What's valuable is the very hard-to-get dataset that creates a very unique and differentiated machine learning model," Örs said. NXP's security strategy is to embed these ML models with a watermark behavior that is easy to detect but does not decrease performance. If this ML model was copied, this watermark would also be copied and easily identified.

Finally, Arnaud Julienne, the VP of Microcontrollers and Digital ICs for the Asia-Pacific Region at STMicroelectronics, took to the stage. In a refreshing contrast, Julienne opened by discussing the applications of edge AI for building a sustainable world. "Let's take a look at what we are doing to protect the planet while we manufacture tens of billions of chips every year," he said. He provided two examples of sustainable solutions assisted by edge AI: a smart washer that saves detergent, water, and energy, as well as AI that predicts arc faults in solar panels. He went on to explain the STM32 chip and its edge AI applications.



Ali Osman Örs
Director, AI ML Strategy and Technologies,
Secure Connected Edget
NXP Semiconductors



Avi Shetty
Senior Director of Client Strategic
Planning & Marketing
Solidigm



Arnaud Julienne
VP of MDG, IoT/AI Competence Centers &
Digital Marketing, APAC Region,
STMicroelectronics



Tomoharu Watanabe
Director, EVP and Executive Officer
Kioxia Corporation



Victor Cheng
EVP of Infrastructure Business
Delta Electronics, Inc.



Alexis Crowell
VP, Sales, Marketing & Communications
Group
Intel

Sustainably Green - Technology Industry Goals in a Net-Zero Age

COMPUTEX 2023 Sustainability-Race to Zero Forum Kicked off on June 1, Highlighting the Necessity for Sustainable Development and Urging a more Profound Imagination for Future Lives and Technology

The COMPUTEX 2023 Sustainability-Race to Zero forum kicked off on June 1, featuring leading figures in the industry sharing their insights on sustainability and how it can be achieved, with most stating that not only was sustainability an issue of grave importance but also that it was a journey that included everyone, so that we may, together, secure the vision of a greener, more sustainable tomorrow.

ASUS co-CEO Samson Hu shared how the company's new carbon partner service – available starting Q4 this year to ASUS commercial customers – is ASUS taking a more active role in carbon footprint reduction. Its four pillars of net-zero emissions policy also allowed the company to produce the then world-first carbon-footprint-verified commercial laptop – the ASUS Expert Book B9- published in 2021.

Next came SGS Senior Global Product Manager Eric Huang, who said companies or governments should implement a regular inventory of greenhouse gas (GHG) emissions, analyze the causes resulting in high GHG emissions, enact reduction measures and ultimately achieve net-zero in emissions, adding that enabling transparency and public disclosing carbon management and reduction information will make the company more appealing, which would feed into its continued efforts to promote sustainability.



Samson Hu
co-CEO
ASUS

Third to take the stage was Kioxia's Director and Executive Officer Tomoharu Watanabe, who said, "Kioxia, as a whole, is committed to reducing GHG emissions across our entire operation, not just in our production processes." While Kioxia has made efforts to make its services sustainable, with the wide usage of Kioxia products in data centers, smartphones, and other facilities, "we must improve the energy efficiency of devices," Watanabe said.

According to Delta Electronics EVP of Infrastructure Business Victor Cheng, Delta's high-efficiency products and solutions have saved 39.9 billion kWh and reduced carbon

emissions by 21.05 million tonnes from 2010-2022. In addition, Delta has imposed an internal "carbon tax" - US\$300 per cubic ton of carbon produced - and has used the "income" to fund research and development, purchase solar power, and take other initiatives to embrace sustainability. The company's US headquarters is an outstanding model for sustainability, as it conserves energy by using heat exchange systems to heat up or cool down water from San Francisco Bay that flows through a series of pipelines under the facility.

Intel Corp.'s VP & CTO of Asia-Pacific Japan, Alexis Crowell, was last, but certainly not least, of all presenters, showcasing how Intel has contributed to a sustainable technology industry by using 100 percent recycled materials or bio-based plastics, helping business partners reduce their scope 3 carbon footprints. Its power supply, the ATX 12VO, promotes energy efficiency and uses less energy to power the entire PC. In addition, Crowell said the software was a crucial part of realizing sustainability because the hardware could not perform to expected standards without it.

"We are participating in the circular economy because we believe, as a technology leader, it is our fundamental responsibility to stand and lead and to move forward and help the industry go together with you," Crowell said.

COMPUTEX 2023 Best Choice Award Winners Revealed

BC
Best Choice
AWARD

With their commitment to international exhibition and strong trust within the industry, COMPUTEX continues to draw a wide range of industry-leading global ICT companies to launch their latest products and showcase their full product offering. As the official award of COMPUTEX, the Best Choice Award is a reliable guide for product procurement. Exclusive to COMPUTEX exhibitors, Best Choice Award products are judged based on their functionality, innovation, and market potential. The winning products are able to win three main awards: The Category Award, Golden Award, and the Best Choice of the Year Award.

The Best Choice Award 2023 added a number of new categories, including smart cockpits, metaverse, ESG, and AIoT. In total, nearly 400 products registered for this year's Best Choice Award, setting a three-year high!

This year, the new ESG focused Sustainable Tech Special Award was introduced for products that focus on sustainability and performance. Many manufacturers have started utilizing recycled materials, including environmentally friendly recycled packaging, low-carbon



products with recyclable designs, as well as more green features to improve sustainability and reduce carbon emissions.

Driven by the twin trends of AI and the digital economy, the international demand for ICT equipment has increased along with demand for promotion through international exhibitions, making the Best Choice Award even more important to today's industry.

See all 37 winners now on the Best Choice Award Website
<https://bcaward.computex.biz>



Best Choice of the Year

Awarded Product	Company
MEG Z790 GODLIKE	MSI

Golden Award

Awarded Product	Company
MEG Z790 GODLIKE	MSI
ASUS Zenbook Pro 14 Duo OLED	ASUS
Acer Aspire Vero 15	Acer
NVIDIA DGX	NVIDIA
Edge AI USB Camera Controller (RTS5863)	Realtek
QCT POD HPC/AI Converged System	QCT
SupremeRAID™	GRAID
J7i Light - AI & AR Intelligent platform	Jorjin
AirJet Mini	Frore Systems

Category Award

Awarded Product	Company
ROG Rapture GT-BE98 WiFi 7 Gaming Router	ASUS
SecuTex	CHT Security
ASUS ExpertBook B9 OLED	ASUS
ProArt Studiobook Pro 16/16/16 3D OLED	ASUS
ROG Swift OLED PG49WCD	ASUS
ASRock Z790 LiveMixer	ASRock
4K Naked-eye 3D surgical medical image PC	CYP
Acer Swift Edge 16	Acer
Fireman Security Management System	K-Best

ASUS HealthHub MAX	ASUS
ROG MAXIMUS Z790 EXTREME	ASUS
Predator Helios 3D 15 SpatialLabs Edition	Acer
PINBO	ASUS
Premier Extreme SDXC SD 7.0 Express Card	ADATA
Nukii	Maktar
Creator Z17 HX Studio	MSI
NVIDIA Omniverse Enterprise	NVIDIA
Medical Surgical Robotic AI Image Computing Platform	Onyx
EVA 5460G DC EV charger	Voltronic Power
Biometric Camera Modules M2D	Amaryllo
Geminus	Mobile Pixels
XR CUBE Open Metaverse Cloud Platform	COMPAL
GC575 Capture Card	AVerMedia
WiFi Dual-Moto-CAM with Quick Installation mechanism	TRANS
E-Bus LKA/FCW ADAS Systems	ELAN
AI Industrial Grade Time-of-Flight 3D Depth Sensing Camera	oToBrite

Sustainable Tech Special Award

Awarded Product	Company
ASUS ExpertBook B9 OLED	ASUS
Acer Aspire Vero 15	Acer
HYDRO Ti PRO	FSP
APAL 5G MR Glasses	COMPAL

BC

Best Choice

AWARD

Best Choice of the Year

MSI

MEG Z790 GODLIKE

NVIDIA

NVIDIA DGX

Realtek

Edge AI USB Camera Controller (RTS5863)

Acer

Acer Aspire Vero 15

Jorjin

J7i Light - AI & AR Intelligent platform

BC

Best Choice

AWARD

Golden Award

Frore Systems

AirJet Mini

GRAID

SupremeRAID™

ASUS

ASUS Zenbook Pro 14 Duo OLED

MSI

MEG Z790 GODLIKE

QCT

QCT POD HPC/AI Converged System

InnoVEX Startups Envision a Connected, Green Future

While Industry Veterans Shared Their Latest Advances at COMPUTEX 2023, over at InnoVEX, Exciting Newcomers Pushed the Boundaries of what Technology Can Do

Taking advantage of the first fully in-person event since the COVID-19 pandemic, 400 teams from 22 countries packed InnoVEX 2023—over double last year’s 195—with exciting products, pitches, and presentations envisioning a more connected and sustainable world.

As always, InnoVEX welcomed startups from national pavilions (this year, from France, Belgium, Italy, the Netherlands, Poland, Japan, Brazil, and Israel, as well as the European Bank for Reconstruction and Development) alongside newcomers from accelerators and government agencies in Taiwan and Japan, enlivening the two stages at Taipei Nangang Exhibition Center’s Hall 2 with rotating forums and pitches on emerging trends like mobility tech, the metaverse, and ESG.

Sustainability proved to be a primary focus, with solutions ranging from ecofriendly materials to waste reduction and even plant-based foods. Tackling the climate crisis will require a reimagining of every facet of production, no part too small. Some startups like BSF Innovation at the Startup Innovation pavilion are focusing on the most fundamental of building blocks—in this case literally, with construction bricks made of plant fiber and insect shells.

AI and XR might be the trends on everyone’s lips, but some presenters are hoping to bring back some of the physical world. Over at the French pavilion, fascinated visitors painted strokes on a monitor with a real brush, no electronics to be found in its clear plastic handle. Instead, ami Technology uses magnets to create “passive” peripherals free of batteries and chips, enabling a dizzying array of sustainable possibilities to replace bulky and complex electronics.

Others hope to bring physicality to XR. For people who might not want or be able to use headsets, Breylon’s Ultra Reality immersive desktop monitor at the Garage+ pavilion offered an alternative with depth that emulates



InnoVEX included many forums and presentations at which startups from Taiwan and around the world introduced the latest technologies and exchanged ideas.

human vision. Alternatively, the engineers at MEGAONE have developed an entire suite of headset varieties, including one that can display images directly on a person’s retina with potential applications for those with impaired vision.

Considering Taiwan’s strength in biotech, it was no surprise that many local startups were offering healthcare solutions. One such company, Alpha Intelligence Manifolds with Garage+, uses AI image analysis to diagnose ailments associated with aging, helping to democratize healthcare access in aging societies.

Last but certainly not least, there was no lack of companies seeking to harness the power of fast 5G connectivity with IoT to create safer and more convenient spaces, from the factory to the city. Coming from a construction background, the founders of BeelInventor know what workers need to stay safe on a dynamic worksite. With the company’s smart helmet, equipment can sense when a worker is in danger to automate fail-safes, while also monitoring their health to get help as fast as possible. Eying a different kind of arena, Sorama at the Dutch “Orange Accelerator” displayed their acoustic camera with applications



from city noise pollution detection to product development. Their demo even showed how the technology can identify abuse during sports games by analyzing speech and pinpointing the culprits in a noisy stadium.

After three years without a global platform for many startups, the advancements seen at InnoVEX this year were unparalleled, even from before the pandemic. Now with the floodgates open wide, the pace of change is accelerating, driven by the kind of creativity that makes InnoVEX known as the Innovation Hub of Asia.



Breylon Product_Breylon is an MIT deep-tech spin-off introducing realizing headset-less solutions for immersion in enterprise and metaverse applications. The technology uses novel physics with optical and computational techniques to create true depth and panorama.

Sneak Peek at the 2023 Garage+ Pavilion

37 Global Tech Startups Aim to Build a Better World

Garage+ supports 37 tech startups selected from over 200 candidates hailing from 38 countries. They represent diverse fields, including 5G and IoT, AI and data, and smart devices, making them some of the most hotly anticipated new ventures of 2023. They have already attracted more than 210 one-on-one

meetings with decisionmakers from 33 leading companies and VCs, including Wistron, Quanta, Delta, Advantech, MediaTek, Pegatron, and Logitech.

The Spring 2023 batch of the Garage+ Startup Global Program organized by the Epoch Foundation is supported by the National Development Council and the Asia Silicon Valley Development Agency. The quality and market potential of Garage+ startups have always captured the attention of businesses and investors, and the Garage+ Pavilion has remained a highlight of COMPUTEX & InnoVEX for years.

As recognized by the Epoch Foundation, every entrepreneur’s dream begins with solving



AI Silk Product_AI SILK is a Tohoku University spinoff that manufactures AL Silk (electrodes) and develops various wearable products using their proprietary and patented technology to produce smooth conductive fabric, turning them into electrodes.



AIE Acts Technology Product AIE Technologys team has an average of 25-years experience in communication algorithms tape-out system integration testing international markets. Many well-known domestic overseas operators ODM serve Tier1 to discuss cooperation, and have overseas project orders over US\$3.1million.

a difficult problem or exploring new possibilities to create an unknown future. This was also the design philosophy underpinning the 2023 Garage+ Pavilion, the vibrant red balloon representing the long-buried motivation and imagination in every person’s heart. Embodied within the balloon is a childlike innocence and a genuine hope to better the world.

Garage+ tech startups | Visit the Following Link to Learn more About the 37 Garage+ Tech Startups: https://garageplus.asia/2023_mustsee/

5G & IoT	AI & Data		Smart Devices	Wellness	Other
AIE Acts Technology	Alpha Intelligence	Illuminant	AI Silk	Alpha Intelligence Manifolds	Actasys
Blutech	Astrus	Lincode Labs	Breylon	APrevent Medical	AIPLUX
Digiots	Blumind	Nearthlab	Nicslab	HME Square	Chelpis
IS-Wireless	Bubbleye	pxCode	qScire	Huijia Health	Ephod Technology
Litmus Automation	Funliday	Sustaihub	Stathera	Humetrics	MIFLY
Millilab	HACARUS	Woodpecker Technologies			pH7 Technologies
Sera4					Red Leader
					Worca





Far EasTone Startup Accelerator Empowers Startups to Succeed at Lightning Speed

At the end of 2021, Far EasTone Telecommunications Co., Ltd. launched the Far EasTone Startup Accelerator, focusing initially on two startup categories: innovation services and the big data/AI/IoT ecosystem.

The first batch proved to have outstanding outcomes and a good model of corporate startup engagement (CSE), leading to even more ambitious milestones. The Far EasTone Startup Accelerator has achieved the following results so far: 37 startups helped across two batches, US\$3.3 million in business opportunities created, 12 innovative solutions developed, 10 startups under evaluation for investment, over 53 sales leads generated, and more.

In 2023, with post-epidemic trends and digital transformation in industries, as well as the increasing demands of net-zero emissions and the new economy, the accelerator is focusing on five areas: smart healthcare, ESG sustainability,



GranDen Corp. AR Solutions

smart retail/services/the new economy, smart cities, and smart manufacturing.

As COMPUTEX and InnoVEX serve as a platform for the startup ecosystem to expand its network and promote innovative solutions, the Far EasTone Startup Accelerator was proud to lead five startups to participate in this significant event for the first time. The startups joining InnoVEX 2023 and the InnoVEX Pi Stage were 3drens, GranDen, Chimes AI, Smart Tag, and TransIoT. The following are brief introductions and official website links for these four startups:

3drens, inc.
3drens provides a data-driven IoT platform designed for commercial fleet owners, such as vehicle rental, logistics, and transportation firms, and automakers.

<https://www.3drens.com/>

Smart Tag, inc.
Smart Tag has developed a plug-and-play smart manufacturing AIoT solution that provides cross-machine, cross-platform data collection and analysis, helping customers to eliminate operational risk and prevent maintenance loss.

<http://www.smarttag.tech/>

GranDen Corp.
GranDen Corp. is a leader in XR interactive technology. Services include AR, VR, holographic interactive technology, OMO retail solutions, and V-Tuber planning and production.

<https://www.granden.rocks/>

Chime AI, Inc.
Chimes AI is dedicated to building no-code solutions for AI to assist people interested in solving existing challenges, increasing productivity, and creating benefits.

<https://chimes.ai/en/about-en/>

Far EasTone Startup Accelerator



[Official Website](https://www.3drens.com/)



[Facebook Fanpage](#)

Flanders Launched Newest Innovation Highlights at 2023 InnoVEX Taipei



Flanders, the northern region of Belgium, is ranked as one of the most innovative environments in Europe. Its innovation-driven economy provides everything a company needs to grow sustainably, perfectly suited to serve as your gateway to international and technological growth.

Flanders Investment & Trade (FIT) is a Flanders government agency that plays a central role in the internationalization of the economy of Flanders. FIT is present in 90 countries around the globe, including Taipei.

This year, the FIT Taipei office invited leading and flagship Flanders-based companies, VC, startups, and scaleups to join several forums and the Flanders/Belgium Pavilion during InnoVEX 2023.

Outstanding speakers included Mr. Tom Vanhoutte, Partner of the independent global venture capital fund imec.Xpand, to talk about global VC trends and value-added deep-tech investment, and Dr. Peru Dharani, Technology Director at Barco Labs Belgium, to present the world of AR/VR/XR. The 2 VIP speakers presented on the Central Stage of the InnoVEX Forum on the afternoon of May 31st.



Providing an overview of Flanders' startup ecosystem, innovation, and international business opportunities, FIT wants to connect startups, potential investors, incubators, and other members of the ecosystem. Highlighted at the Flanders-Belgium Pavilion were the Flemish flagship innovation company Barco, Belgium's future unicorn SettleMint (blockchain), promising scale-up Luceda Photonics (photonics EPDA tool/IPs), and fast-growing Marklinks (machine learning for offshore wind cable monitoring).

**Trade and Investment Commissioner,
Flanders Investment & Trade**
www.flandersinvestmentandtrade.com

Flanders-Belgium Pavilion



During InnoVEX 2023, Barco officially launched the newest incremental innovation result of ClickShare CX50 2nd Generation. ClickShare is a success story for Barco and the Corporate Venture Team, which are committed to disruptive and incremental innovation.



SettleMint is believed to be Belgium's next unicorn specialized in blockchain-platform-as-a-service applications. It is the No. 1 low-code solution to build and integrate any blockchain application, faster and easier.

SettleMint's platform brings value for everybody in an organization, not only IT experts. The startup believes that organizations will benefit from the huge potential of blockchains, as long as technical complexity is removed.



Luceda Photonics is one of Belgium's fastest-growing semiconductor startups, providing photonic IC design tools and IP. Luceda serves as the upstream entry point in the photonics ecosystem for designers as well as foundries. Its EPDA (Electronic Photonic Design Automation) automates and integrates all aspects of photonic IC design flow into one platform to give designers a "right-the-first-time" experience.



Marlinks was the winner of the 2022 Blue Innovation Award in Belgium. Marlinks' sub-sea cable monitoring models and machine learning algorithms turn data into actionable insights that integrate with existing O&M systems to allow for timely maintenance.

Subsea cables in the offshore wind industry represent 10 to 20% of initial capital costs, but 80% of all insurance claims for wind farms.

Marlinks' solutions ensure no more unplanned maintenance, eliminate expensive surveys, and reduce insurance premiums.



Poland Returned to InnoVEX, Bringing Innovative Software

InnoVEX is the most important large-scale exhibition for global ICT startups. It brings together startups from all over the world, including France, the Netherlands, Japan, and Italy, to showcase their best innovative capabilities through the InnoVEX platform. After moving online and holding a hybrid exhibition during the pandemic, COMPUTEX made a grand return to the Nangang Exhibition Center in 2023. In 2023, the Taipei Office of the Polish Investment and Trade Agency returned to InnoVEX, setting up the Polish National Pavilion area. They invited three Polish ICT startups to participate in InnoVEX, demonstrating Poland's innovative ICT software and hardware.

Łukasz Piotr Lanski, the Head of the Foreign Trade Office at the Polish Investment and Trade Agency, said, "In the global ICT market, Poland possesses leading software technology, while Taiwan's expertise lies more in hardware. We believe that through combining the software and hardware from both sides, we can form a strong collaboration and create even better results."

The software company Fluid Desk specializes in developing software for the architectural design field. They provide professional software solutions specifically to help architects design air conditioning and fluid pipelines systems. This software comes with a comprehensive object library and is compatible with commonly used design programs like AutoCAD and BricsCAD. It is intuitive, user-friendly, and allows for direct import and export of CAD files. This is helpful for both parts manufacturers and designers,



LAMEL Technology Sp. provides protective screened and cased for various digital products. Under the brand MyScreen PROTECTOR, their CUT&USE service uses laser cutting technology to provide complete solutions for mobile device screen protectors.

allowing them to quickly provide the best pipe planning layouts for construction projects.

Gorriions is a software company that provides design and planning solutions for digital products. With over 200 successful cases, they specialize in developing user interface software for new digital products. They also conduct in-depth analysis of existing products based on functionality and user feedback, fixing any issues with the product and optimizing the design of the user interface. This gives users a better experience and creates better business opportunities for clients.

LAMEL Technology Sp. provides protective screens and cases for various digital products.

Under the brand MyScreen PROTECTOR, their CUT&USE service uses laser cutting technology to provide complete solutions for mobile device screen protectors. Through this flexible technology, they can produce protective screens and cases of the best quality for all types of mobile devices, both new and old. Using compact cutting equipment and a control panel, they can quickly cut specific protective cases in a variety of materials by entering the data for different mobile devices. Users only need to bring their phones to the store, and professionals can use CUT&USE to quickly make customized phone cases, creating a personalized look for your phone.

French Pavilion Wowed Visitors with Tech Innovations



The French pavilion was back at this year's COMPUTEX TAIPEI! Organized by Business France, the pavilion under the banners of la French Tech and Choose France showcased 10 innovative companies with solutions covering key tech domains such as power supply and management, consumer electronics, human-machine interaction, and cybersecurity.

Among the exhibitors, [ITEN](#) specializes in the design and production of solid-state and eco-friendly micro-batteries that can be recharged at a constant voltage and in just minutes. With no risk of explosion, they can be integrated into a multitude of products as a power back-up solution or for IoT and electronic tag applications. Having raised 80 million euros in equity in Q4/2022, ITEN is currently setting up a second high-volume production site.

Regarding power supply and management, [Energysquare](#) provides conductive wireless charging technology making charging devices simultaneously on a single surface possible, with no electromagnetic waves and no energy loss. [Wise Integration](#) proposes power GaN integrated circuits combined with a new digital controller in order to drastically improve the power density and energy efficiency of AC-DC power supply.

As for consumer electronics, [Daan Tech](#) produces its flagship product Bob—the most autonomous, eco-compact, and fast dishwasher Made in France and with over 65,000 units sold worldwide. [NEMEIO](#) has created the first universal and fully customizable keyboard equipped with an Electronic Paper display,

allowing total customization and endless possibilities.

Tackling the subject of human-machine interaction, [AMI](#) provides augmented interaction technology using tri-axis magnetic sensors and algorithms to calculate in real time the 3D position and orientation of a magnet with extreme accuracy. The sound creation studio [Music Unit](#) developed audio software that transcribes all types of 3D audio files into a universal 3D format readable by any device.

[ART-FI](#)'s technology allows instant and precise near-field measurements of all electromagnetic wave characteristics for human radio frequency exposure assessment.

In terms of cybersecurity, [SEALSO](#) has developed next generation quantum-resistant semiconductors, public key infrastructure (PKI), and related trust services, and provides a complete set of ready-to-use secure elements for embedded security. [SECURE-IC](#)'s cybersecurity solutions lie in the provision of hardware code and software for electronic components and their management in the cloud. Its components are embedded in millions of chips for smartphones, laptops, automobiles, smart meters, and passports.

BUSINESS FRANCE
www.businessfrance.fr/en/home



The French Pavilion this year showcases innovative power solutions from batteries to fast-charging technologies. As for consumer electronics, France also has innovations in household appliances and peripherals.



Two other hot topics addressed by the exhibitors this year are human-machine interaction and cybersecurity with a focus on chips and IoT.

Accelerating Change at COMPUTEX TAIPEI: “The Orange Accelerator”

The Netherlands, Europe’s third-largest startup and venture ecosystem, is also home to around 10,000 tech ventures. This breaks down to roughly 8,700 pre-seeds, 1,000 startups, and almost 200 scaleups, growing by about 6% each year. Together, Dutch startups and scaleups employ over 100,000 people, with total valuation of just over 230 million euros.

In 2021, investors injected over 5 billion euros in Dutch startups and scaleups. Health tech and fintech were most successful at procuring new funds, representing 25% and 26% of the total respectively, with climate tech nipping at their heels.

At COMPUTEX TAIPEI 2023, the Netherlands Accelerator Pavilion featured startups and scaleups from various industries working together to solve global challenges, including IoT, blockchain, circular economy, telecommunications, foodtech, renewable energy, security, and more. Many were not visiting Taiwan for the first time, attracted by the flexibility and connectivity of its market. “You can easily have meetings with both customers and suppliers within a day,” one company representative said.

The Netherlands Economic Network Liaison in Taipei wishes to support those companies not only as they visit Taiwan, but also as they take root in the ICT, energy, semiconductor, and other industries here.

Visitors to the Netherlands Accelerator Pavilion were in for a treat, with free Dutch beer and fresh traditional stroopwafels offered an hour before closing every day at InnoVEX. There were also daily pop-up demos from companies, showcasing their advanced products.



Must-see Dutch Companies:

IoT Consulting Partners (startup)

The Internet of Things (IoT) and the Internet of Medical Things (IoMT) provide unique opportunities to tackle the challenges of a society in lockdown. The growing need for wireless connectivity and IoT services goes hand-in-hand with an increase in demand for regulatory and country approval. More than ever, technical and regulatory knowledge of the latest wireless technologies (4G, 5G, NB-IoT, Wifi) is essential for successful IoT product development.

Pilotfish (scaleup)

Pilotfish is an innovative agency that specializes in developing consumer, professional, and medical products. We transform complex technologies into meaningful user experiences and deliver products fully ready for the market.

Plaza LOGIC (startup)

PlazaLOGIC is a technology firm that specializes in the development of IoT, Azure and Windows, Android, and iOS-based solutions. PlazaLOGIC has helped numerous clients define their projects, and design and develop hardware,



supporting cloud solutions, and desktop and/or mobile applications.

Sorama (scaleup)

Sorama develops groundbreaking acoustic cameras used globally within OEM and R&D acoustics, design departments, noise reduction, smart cities, smart stadiums, and industrial inspections.

NETHERLANDS OFFICE TAIPEI
www.nlot.org.tw

Groundbreaking acoustic cameras by Sorama are used globally within OEM and R&D acoustics, design departments, noise reduction, smart cities, smart stadiums, and industrial inspections.



Startups Flexed Italian Innovation at InnoVEX

The Italian Trade Agency (ITA) is the governmental bureau that supports the business development of Italian companies abroad and promotes the attraction of foreign investment in Italy. ITA has organized a national pavilion at InnoVEX hosting five startups, which provide examples of Italian creativity and innovation across sectors:

Boatsandgo

The first metasearch algorithm to compare charter yachts, boat rentals, and boat-sharing deals. Users can compare deals from hundreds of sites and get the right boat at the right price, just as they are used to doing with Trivago for hotels or Skyscanner for flights.

MyMoney

An innovative payment system, completely biometric and device-free, that aims to be fast, easy, and secure. MyMoney’s system is based on the recognition of fingerprints with FBI-certified readers, the highest security level on the market, and does not require a smartphone.

TimelapseLab

An innovative video surveillance system for construction sites that helps project management, HSE monitoring, and documentation production. It combines the production of plug-and-play industrial devices, resistant to all critical issues, with a functional management platform for remote control.

Travel Verse

A metaverse solution applied to the travel industry. Combining blockchain, digital twins, artificial intelligence, virtual and augmented reality, and the Internet of Things allows travel agencies and tour operators to represent their travel offerings to customers in an innovative way.

Visual Note

A revolutionary system that accelerates the guitar learning process. It utilizes a foil with LEDs directly applied to the guitar fretboard, a controller, and a mobile app to show where to put fingers to play a selected tune right on the guitar or on a mobile phone virtual fretboard.



Italy has a strong and dynamic ecosystem of universities, R&D centers, innovation hubs, and national and international firms, making it the leader in the EU in different engineering fields by number of scientific citations. Innovative SMEs and startups are an important reflection of such a dynamic ecosystem, representing a valuable feature of the national industry.

Italy is often recognized for its history, arts, and culture, as well as for the three “Fs” of fashion, food, and furniture, yet ITA Taipei is confident that Taiwanese companies visiting the Italian Pavilion at INNOVEX will start looking at Italy as a hi-tech country.

THE ITALIAN TRADE AGENCY (ITA)
<https://www.ice.it/en/>



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義大利經濟貿易文化推廣辦事處
Italian Economic, Trade and Cultural Promotion Office



ITALIAN TRADE AGENCY

EBRD Features Broad ICT Talent, Pioneers in Cybersecurity and Computing



The European Bank for Reconstruction and Development (EBRD) led a delegation of 26 companies with over 30 participants from its regions to COMPUTEX TAIPEI 2023, the second-largest trade show dedicated to the information and communications technology (ICT) industry.

The group was formed of 26 small and medium-sized enterprises (SMEs) and high-potential startups from the Bank's flagship Star Venture programme, with over 30 participants from 12 of the 38 economies where the EBRD invests joining both the COMPUTEX and InnoVEX events. This selection of companies specialise in a wide range of products and services within the ICT Industry. EBRD visitors also had the chance to connect with other entrepreneurs and exchange industry insights.

Participation in the trade show was supported by the TaiwanBusiness – EBRD Technical Cooperation Fund.

Facilitated by the Bank's Business Matching and Development programme, which promotes international business exchange and knowledge transfer, the global exhibition aimed to raise the profile of SMEs pioneering digital technologies for innovation and sustainable solutions.

In addition, the programme promotes the business matching activities of SMEs in ICT, helping them access international know-how, gain new skills, and establish successful cross-regional business networks and partnerships to become more competitive.

ICT, a rapidly growing sector in the EBRD's regions, presents strong business development opportunities for SMEs. High-tech enterprises drive innovative solutions to emerging global challenges and have an important role to play in fostering a diversified, sustainable economy that encourages competitiveness and access to foreign markets.

Three companies were selected from a pool of ICT pioneers to exhibit their business at the EBRD's pavilion in InnoVEX and pitch their technologies to manufacturers and prospective buyers.

Among them were "CyberTalents" from Egypt, an end-to-end talent platform to assess, upskill, and hire cybersecurity talent; "easySales" from Romania, which champions a technology that enables merchants to integrate e-commerce platforms with marketplaces, billing software, and couriers or fulfilment centers in minutes and without coding; and finally "InAccel" from Greece, which provides FPGA-based acceleration solutions for data centers and cloud providers, enabling high-performance and cost-effective computing for AI/ML, HPC, and big data workloads.

- SMARTIT**
<https://easy-sales.com/>
- InAccel**
<https://inaccel.com>
- CyberTalents**
<https://cybertalents.com/>

The EBRD is the largest single investor in many of the countries where it operates. It is active in 38 economies from central Europe to central Asia, the western Balkans, the southern and eastern Mediterranean, and more recently Lebanon, the West Bank, and Gaza.

The Bank's investments also mobilize significant foreign direct investment into the economies where it operates. It invests mainly in private enterprises, usually together with commercial partners. It provides project financing for the financial sector and the real economy, both new ventures and investments in existing companies. It also works with publicly owned companies to support privatization, the restructuring of state-owned firms, and improvement of municipal services.

The Bank is owned by 66 countries and two intergovernmental institutions (the European Union and the European Investment Bank). It maintains close political dialogue with governments, authorities, and representatives of civil society to promote its goals. It also works in cooperation with international organizations such as the OECD, the IMF, the World Bank, and UN specialized agencies. In all its operations, the EBRD follows the highest standards in corporate governance and sustainable development.

As a public institution, the EBRD is committed to rigorous public information policy.



MEDIA PARTNERS





Bounteous Selections of Innovative ICT Technologies and Opportunities Delight Delegates at COMPUTEX and InnoVEX 2023

Delegates of the European Bank for Reconstruction and Development's (EBRD) SMEs and Star Venture Programme were delighted with the success of their mission to source suppliers, service and solutions providers and partners at COMPUTEX and InnoVEX 2023, and at the behest of COMPUTEX and InnoVEX 2023 organizer, Taiwan External Trade Development Council (TAITRA) were more than willing to share their experiences during this year's COMPUTEX and InnoVEX 2023 event.

Speaking third was the Albanian company, LekoTech, represented by Co-Founder, Software Development Manager, Nikolin Ngjela. Operating in the Albanian market of Information Technology, LekoTech offered and collaborated with partners in northern Italy.

Andorean would benefit much from the show as it sourced both hardware and software, and the event far exceeded her expectations, Erdenetuya said while saying that the organization of COMPUTEX and InnoVEX 2023 was excellent and that events and pavilions were easily accessible.



Communication with companies and their representatives was easy, with little to no language barrier issues, an occurrence that Erdenetuya said evidenced that the "global village" was no longer just a concept but a reality.

The Sustainable Development of the Information and Communications Technology (ICT) Industry through Business Matching in Taipei event was genuinely beneficial as it removed intermediaries between Andorean

and the vendors, which Erdenetuya said allowed them to communicate with vendors directly on maintenance parts, systems designs, custom developments and other details.

"This is the right place that fulfills our goals," Erdenetuya said, adding that Andorean had spoken with several vendors intending to pursue serious partnerships down the road.

The second company to share its experiences with us was Summit Computer Technology,

represented by its Product Planning Manager Bat-Orgil Bymbatsogt. It is the official international brand distributor offering retail, wholesale and information technology (IT) solution services that also hails from Ulaanbaatar, Mongolia,

Upon visiting the pavilions of QNAP Systems Inc. and Gigabyte Technology at COMPUTEX and InnoVEX 2023, Bat-Orgil expressed his admiration for QNAP's network-attached storage appliances, noting their impressive qualities of simplicity, excellent design, solidity, and efficiency. Recognizing the value of face-to-face meetings for business growth, Bat-Orgil expressed his happiness in meeting with business partners, including executives from BenQ and Acer.

He said that the Mongolian server and computing market was largely cornered by Dell and Hewlett-Packard Enterprise (HPE), but Summit would love to work with Gigabyte under the right circumstances to promote their brand in Mongolia.

The visit highlighted how Taiwan had created a very strong "cluster" of high-tech products that were all illuminating and painted the "big picture" for industry trends, he said, citing the sustainability theme as an example, and how solutions and services drove home the urgency of the concept's implementation.

Speaking third was the Albanian company, LekoTech, represented by Co-Founder, Software Development Manager, Nikolin Ngjela and the first Albanian company to visit COMPUTEX and InnoVEX 2023. Operating in the Albanian market of Information Technology, LekoTech offered and collaborated with partners in northern Italy.

Ngjela said the experience of the show was extraordinary and that he witnessed the latest developments within the industry during his time here, including the future of computing - the generative AI tech.



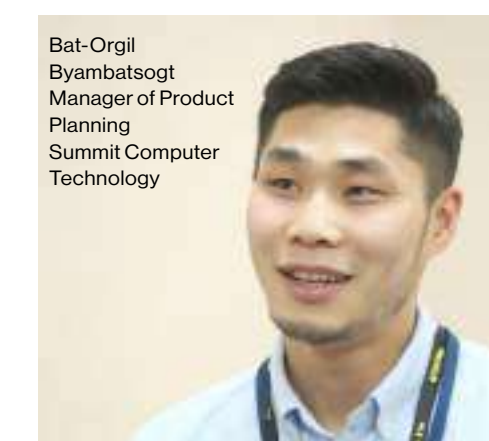
Ngjela also said the visit had helped achieve his company's goal, as they had met with companies that would be of great assistance with his company's most recent project, while stating that the visit had given the company a chance to reach out to vendors of virtual reality (VR) and AI, which is instrumental in realizing the company's vision of creating a virtual environment of stores for its clients.

"Taiwan is a global leader in the industry of semiconductors and chips. The power of Taiwan is above the boundaries of this country," Ngjela said, adding that many of the technological developments seen here in Taiwan were what's next for the computing industry.

Last but not least is the Istanbul-based Veloxia, which develops mobile games across strategy and simulation genres and casual gamers in between. The company was represented by co-founding CEO Tugay Alyildiz,

Alyildiz affirmed that the show was helpful in his search, particularly the Nvidia keynote, during which the company had introduced accelerated computing services, software and systems that are enabling new business models and making current ones more efficient, and have been able to try out devices launched by start-ups that will be pioneering the market in the upcoming years in advance, and knowing what will be introduced. He also said that while his hardware purchase plans were initially for the mid-to-long term, he decided to move those plans forward to an earlier date due to what he saw at the show.

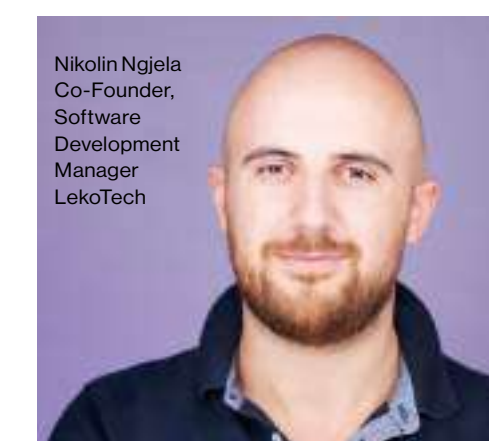
The show was also helpful in that while talking shop with vendors, they may also provide potential opportunities for collaboration and partnership, Alyildiz said, adding that the EBRD's plans had been perfectly balanced for business and leisure.



Bat-Orgil
Bymbatsogt
Manager of Product
Planning
Summit Computer
Technology



Erdenetuya
Chuluunbaatar
CEO
Andorean LLC



Nikolin Ngjela
Co-Founder,
Software
Development
Manager
LekoTech



Tugay Alyildiz
Co-Founder,
Veloxia Yazılım Ve
Teknoloji AŞ

ICT Sourcing Meeting at COMPUTEX a Resounding Success for Both Buyers and Suppliers

As one of the world’s most prestigious information and communications technology (ICT) conventions, COMPUTEX TAIPEI, organized by the Taiwan External Trade Development Council (TAITRA), is not only a platform presenting the newest tech trends but also a gathering ground for those in the industry to meet, commingle and seek potential partnerships.

Stepping into the COMPUTEX 1-on-1 Hybrid meeting for the Sourcing Taiwan for Global Government Procurement ICT & SEcurity SOLUTIONS, held on Wednesday in Room 505 on the 5th Floor of the Taipei Nangang Exhibition Center, Hall 1 on (date), we are greeted by the hushed conversations of meetings that have already commenced, and other representatives that have either concluded talks or are waiting for their next potential client.

Overall, company representatives were delighted to be back at COMPUTEX TAIPEI and said that the show was very helpful in sourcing potential clients and solutions providers. Deutsche Telekom’s Dominik Knortz. Mr. Knortz, a regular visitor of COMPUTEX, said he liked the format of the sourcing meeting, as it provided opportunities to source new suppliers and new products that will be used for Deutsche Telekom’s smart home solution.

Humax’s US office Vice President and Office of Chief Strategy Officer Michale Liao said that the company had come to the event to scout out



new suppliers for both hardware and software, with firmware and platforms being the main focus of its software procurement, and that it was good to be back at COMPUTEX TAIPEI.

Princeton Technology Inc. president and CEO Nasir Javed, representing the California-based company of three decades said their company specialized in technology and storage space and that the COMPUTEX event was great in that it provided a “global perspective” where one gets to know the suppliers and competitors, “giving you a good pulse on the state of the economy, industry and market.”

When asked to comment on the state of the industry, Mr. Javed said that the industry was putting on “a brave face” and trying to put the pandemic behind them. However, he

added that there was still a lot of uncertainty from the vantage point of an overall outlook of the economy.

Last but not least was Ms. Isil Karaduman, representing Istanbul-based household appliances distributor Arcelik Global. A first-time comer to COMPUTEX - and the first time representing her company at an event - Ms. Karaduman said the event offered many choices for suppliers and the opportunity to grow one’s personal network of acquaintances, adding that the event was of great assistance. She had found partners not only for her current visit but also a “pocket list” of companies that her company would be interested in working with in the future.



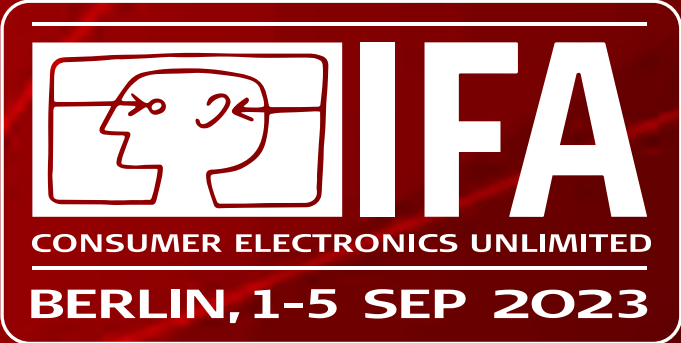
Dominik Knortz
Deutsche Telekom



Nasir Javed
Princeton Technology Inc.



Isil Karaduman
Arcelik Global



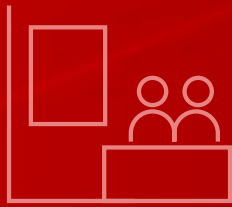
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Don't miss the world's largest consumer electronics and household appliances event

IFA is the most influential meeting place for retailers, buyers, and experts from the industry and media



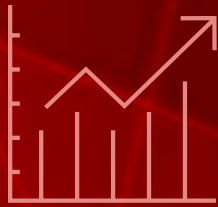
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Organizers:  TAITRA  TCA

04 — 07
JUNE, 2024

Actions Micro (EZCast) Unveiled Wireless Display Transmitter and Receiver Kit at COMPUTEX 2023

Breaking Free from Cables, the Wireless Display Future Is Near

Actions Microelectronics (EZCast) is an IC design company specializing in wireless display solutions. At COMPUTEX 2023, it showcased a range of in-house developed wireless display ICs, product modules, and wireless display products based on EZCast's screen mirroring technology. This includes the EZCast Pocket and the brand-new Compact Mate series.

Exclusive Point-to-Point EZCast Wireless Transmission Technology

Actions Micro utilizes its exclusive EZCast protocol to enable point-to-point wireless transmission, allowing screens from devices such as set-top boxes, computers, smartphones, and game consoles to be projected onto displays, TVs, or projectors. The content is

transmitted from the transmitter to the receiver, eliminating the need for traditional HDMI cables and overcoming spatial limitations. No Wi-Fi connection or app download is required, as the devices automatically pair and connect. It's as simple as plug and play, providing the utmost convenience.

Compact, Low Latency, Long Range, and Multi-Device Support

The EZCast Pocket and Compact Mate series employs Actions Micro's newly developed chipsets, enabling the products to achieve an incredibly small size of 2cm by 2cm, fitting snugly into an HDMI connector. In terms of performance, they can transmit signals over distances of 30 to 50 meters with a mere

0.05-second delay, setting new benchmarks in the market. With products like Pocket and Compact Mate developed by Actions Micro, traditional display cables will be no longer needed in the near future.

The newly launched Compact Mate series requires no app installation or Wi-Fi connection, and can be used instantly on mobile devices and TVs. In addition to supporting HDMI devices like laptops, the Compact Mate series also works with USB-C ports (with DisplayPort interface) on smartphones and tablets.

ACTIONS MICROELECTRONICS CO., LTD.
(EZCast)
www.ezcast.com

Compact Mate World's Smallest Wireless Display Solution



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Receiver



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Transmitter



Mate 3
Transmitter



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Portable and Indestructible Data with Datotek’s Amber Shield SSD

Triple Data Protections

To satisfy multiple user environments, ARES Amber Shield portable SSD is qualified with IP67 standards. Which means that Amber Shield can operate normally after 30 minutes deep under 1.5 meter in water and its totally dust-proof. What’s more? Amber Shield housing combined the advantage of ABS and the brilliant of the structure design, Amber Shield keep your data safely even dropped from 1.2m high.

Amber Shield housing injected by electric injection molding machine which can provide a more precise and stable housing quality. Material selected ABS with advantages of rugged, wearproof and low influence of humidity and temperature. Through ultrasonic welding, Amber Shield is out of the frame and provide triple protections of your data. Amber Shield is the perfect mate for businessman, editors and field workers.

Transfer Within a Snap

With USB3.2 Gen2x2 high-speed interface Amber Shield reached a read speed with 2000MB/s. It’s a remarkable evolution of your user experience. The high performance allows creators to edit their huge hi-res files on Amber Shield portable SSD directly without any pause.

Mobile Library

Amber Shield designed with a fit size for easy carry on. Data transfer could be anytime and anywhere. Amber Shield provides 4TB storage capacity which enable you to carry your games and UHD along with you easily.

Never a Problem with Connectivity

Amber Shield apply to Windows and MAC computer systems, and also support OTG transfer among mobile devices.

Green Manufacture Processes

Datotek devotes itself to popularizing green processes and sustainable operation for reduce influence on earth. By adopting electric injection molding machine, the manufacture processes of housing has a significant energy saving and carbon footprint reducing. Regarding to the printing, we use the which certificated of Greenguard Gold standard, it avoids people from influence of volatile organic chemical emissions indoor. Green process, green partners and green life is our mission and action toward our home, earth.

DATOTEK INTERNATIONAL CO., LTD.
www.datos.com.tw



Supermicro Demonstrated Unparalleled Array of New Servers and Storage Systems at COMPUTEX 2023

From the Data Center to the Edge, Supermicro Designs and Manufactures Total-Rack Scale Integrated Solutions to Achieve Superior Performance, Flexibility, and Energy Efficiency with Rapid Deployment

Super Micro Computer, Inc. (Nasdaq: SMCI), a total IT solution provider for cloud, AI/ML, storage, and 5G/edge, continues to innovate with a broad range of servers to meet IT requirements for modern workloads. Supermicro’s Building Block Server® methodology enables a first-to-market delivery with the latest technology from Intel, AMD, and NVIDIA. Purpose-built servers deliver exceptional performance for a wide range of AI, cloud, and 5G workloads, from the data center to the edge.

“As we expand our production capacity to meet the accelerating demand of high-performance data center workloads, such as large-scale AI infrastructure deployments, Supermicro continues to deliver the industry’s most innovative and advanced servers to meet any customers’ requirements, including the most powerful AI server available, with dual CPUs and eight NVIDIA H100 HGX GPUs,” said Charles Liang, president and CEO of Supermicro. “From compact servers that must perform in challenging environmental conditions to climate-controlled data centers, we are able to give our customers exactly what is needed for their unique requirements. We offer advanced liquid cooling solutions that reduce data center power requirements.”

At COMPUTEX 2023, Supermicro showed a wide range of servers and

storage solutions, as well as its fully integrated rack with the newest liquid cooling technologies to enable unprecedented energy efficiency and fast deployment.

The two main highlights of the Supermicro lineup at COMPUTEX 2023 included:

■ Rack Scale Liquid Cooling

Supermicro’s full-rack liquid cooling solution enables organizations to run the highest-performing GPU servers under optimal operating conditions. Supermicro supplies, integrates, and tests full-rack level liquid cooling solutions, including CDUs with redundant power and pumps, Cooling Distribution Manifolds (CDM), leakproof connectors, and optimized hoses. A Supermicro-designed highly efficient cold plate enhances the removal of heat from both CPUs and GPUs.

■ GPU-Optimized Systems

Servers with eight or four NVIDIA HGX H100 Tensor Core GPUs, and dual 4th gen Intel Xeon



Rack Scale Liquid Cooling



GPU-Optimized Systems

scalable processors or dual 4th gen AMD EPYC processors. The X13 and H13 Universal GPU systems are open, modular, standards-based servers that provide superior performance and serviceability with a hot-swappable, toolless design. GPU options include the latest PCIe, OAM, and NVIDIA SXM technology. These GPU servers are ideal for workloads with the most demanding AI training performance, HPC, and big data analytics.

SUPER MICRO COMPUTER, INC.
www.supermicro.com

To learn more about

- Supermicro at COMPUTEX 2023, visit www.supermicro.com/computex
- Supermicro’s wide range of products, visit www.supermicro.com



Thermaltake Announced CTE C750 Full Tower Chassis Series

Centralized Thermal Efficiency

Thermaltake, the leading PC DIY premium brand for cases, power, cooling, gaming peripherals, and enthusiast memory solutions, is pleased to unveil the launch of the CTE C750 Full Tower Chassis Series, in black and snow versions. The CTE C750 Series is an E-ATX full-tower chassis that comes with Thermaltake's innovative CTE (centralized thermal efficiency) form factor design and is focused on providing high-level thermal performance to critical components.



To deliver more efficient airflow pathways for advanced hardware, the CTE Form Factor Series utilizes 90-degree motherboard rotation, allowing CPU and graphics cards—a PC's critical heat sources—to have independent airflow paths by moving them much closer to the cool air generated from the front panel and the rear panel respectively. The CTE C750 Series can house up to 14 120mm/140mm fans and 420mm AIO radiators on the front, rear, and motherboard side, enabling cold air draw from three directions to optimize heat convection. The CTE C750 Series includes two selections: The CTE C750 TG ARGB Full Tower Chassis comes with a tempered glass front panel and pre-installed CT140 ARGB cooling fans, while

the CTE C750 Air Full Tower Chassis, which has a perforated metal front panel and pre-installed CT140 PC cooling fans, is a more ventilated chassis.

The CTE C750 Series is designed to have maximum customizability for air cooling, AIO liquid cooling, and custom liquid cooling. In addition to three pre-installed CT140 cooling fans at the front, top, and rear, the CTE C750 Series fan brackets (front, bottom, and rear) and pump & reservoir bracket (bottom) allow AIO and DIY lovers to easily install their dream builds. With the 4mm thick tempered glass window panel on the left side, users can fully display all the inner components of their liquid-cooling system.

As a user-friendly chassis, the CTE C750 Series is designed for efficient space utilization. Through built-in rotatable PCI-e slots and the enclosed riser cable bracket, you can display your graphics card any way you like. The dual chamber design delineates clean and large spaces, and PC builders can achieve superior cable management with dedicated Velcro straps and cable clips inside the chassis. The M/B vent cover plate can be moved to the right to hide cables and can also provide additional fan/radiator installation spots for the cooling system.

Thanks to Thermaltake's cutting-edge CTE form factor and dual chamber design, the CTE C750 Series is an ideal E-ATX full tower for gaming enthusiasts who prefer supreme cooling support and a spacious interior for their custom liquid cooling system. Don't miss out on the CTE C750 Series, and enjoy Thermaltake's centralized thermal efficiency design for your dream build!

THERMALTAKE TECHNOLOGY CO., LTD.
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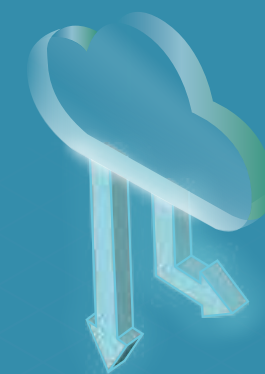
CTE C750 Webpages

[CTE C750 TG ARGB](#)
[CTE C750 Air](#)
[Product animation](#)
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Thermaltake COMPUTEX website: <https://computex.thermaltake.com/2023/>

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Orbit 360° AI Tracking Mount Holder



Introducing the Nugens AI Tracking Mount Holder

The Versatile and Innovative Device Was Designed Specifically for the iPad and Conference Camera

With its advanced 360° full tracking capability, the **Nugens** mount holder ensures that your videos are perfectly presented from every angle. There are no blind spots, allowing for seamless tracking and capturing of your subject. Say goodbye to restricted movement and enjoy the freedom to create dynamic and engaging videos.

One of the standout features of the AI Tracking Mount Holder is its impressive load capacity. With a weight limit of 2.5kg, it sets the industry standard and enables you to free yourself from weight restrictions. Its durable pivot ensures stability and reliability, even when using heavier equipment, providing you with peace of mind during your shoots.

Uninterrupted operation is a key benefit of this mount holder. Thanks to its exclusive rotating base design, you can

continue using the device while it is charging. The 360° rotation function operates smoothly and without obstruction, allowing you to capture footage without any interruptions. Additionally, the mount holder boasts a large lithium battery capacity, ensuring that it can keep up with the demands of long shooting sessions.



The AI Tracking Mount Holder is designed for compatibility. It features both 1/4 universal locks and lock holes, making it compatible with various cameras and tripods. Additionally, it comes with a Universal Clip Holder that supports iPads, tablets, webcams, and smartphones, providing you with the flexibility to capture diverse angles with ease. Whatever your preferred device or setup, this mount holder has you covered.

For convenient operation, the mount holder includes

a remote control that optimizes remote functionality, giving you more freedom and flexibility during your shoots. Take control of the tracking, rotation, and other features from a distance, allowing you to focus on capturing your best footage effortlessly.

The AI Tracking Mount Holder takes convenience a step further with its AI human recognition feature. It automatically recognizes human figures and seamlessly switches the shooting object. This makes multi-person shooting a breeze, as there is no need to manually adjust the angle. Simply activate human recognition, and you can confidently livestream or record with ease, knowing that the mount holder will adapt to your movements.

The AI Tracking Mount Holder is a versatile and powerful accessory that brings a new level of convenience and professionalism to your video shooting. With its 360° full tracking, strong load capacity, uninterrupted operation, full-angle shooting capability, extensive compatibility, remote control operation, AI smart algorithms, AI human recognition, and plug-and-play design, this device empowers you to capture outstanding footage with ease. Elevate your video content and unlock your creative potential with the AI Tracking Mount Holder.

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A complete Windows system that functions like a large PC, supporting YouTube live streaming and web browsing.

AIO PC
55" Standee (Touch/Non-Touch)

24"
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24" Height Adjustable Intel i5 All-in-One PC

Mix & Match -- Nugens Mini PC

Monitor Select 1

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43" or 55" Display

Mini-PC Select 1

Cube Mini-PC i3/8GB/256GB

Mini PC-Stick 4GB/64GB

Additional

HDMI Wireless Extender

Nugens Exclusive Designed

360° AI Tracking Mount Holder

High Load Designed for iPad

- Designed for tablets and smartphones Support up to 2.5kg
- Built-in AI algorithm enables precise tracking

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Effortless Charging Solution

- Designed for various brands, charge up to 30 stylus pens
- Equipped with magnetic charging cables for easy charging
- Wireless charging version supports 30 Apple Pencils

UVC Transformer Sanitizer

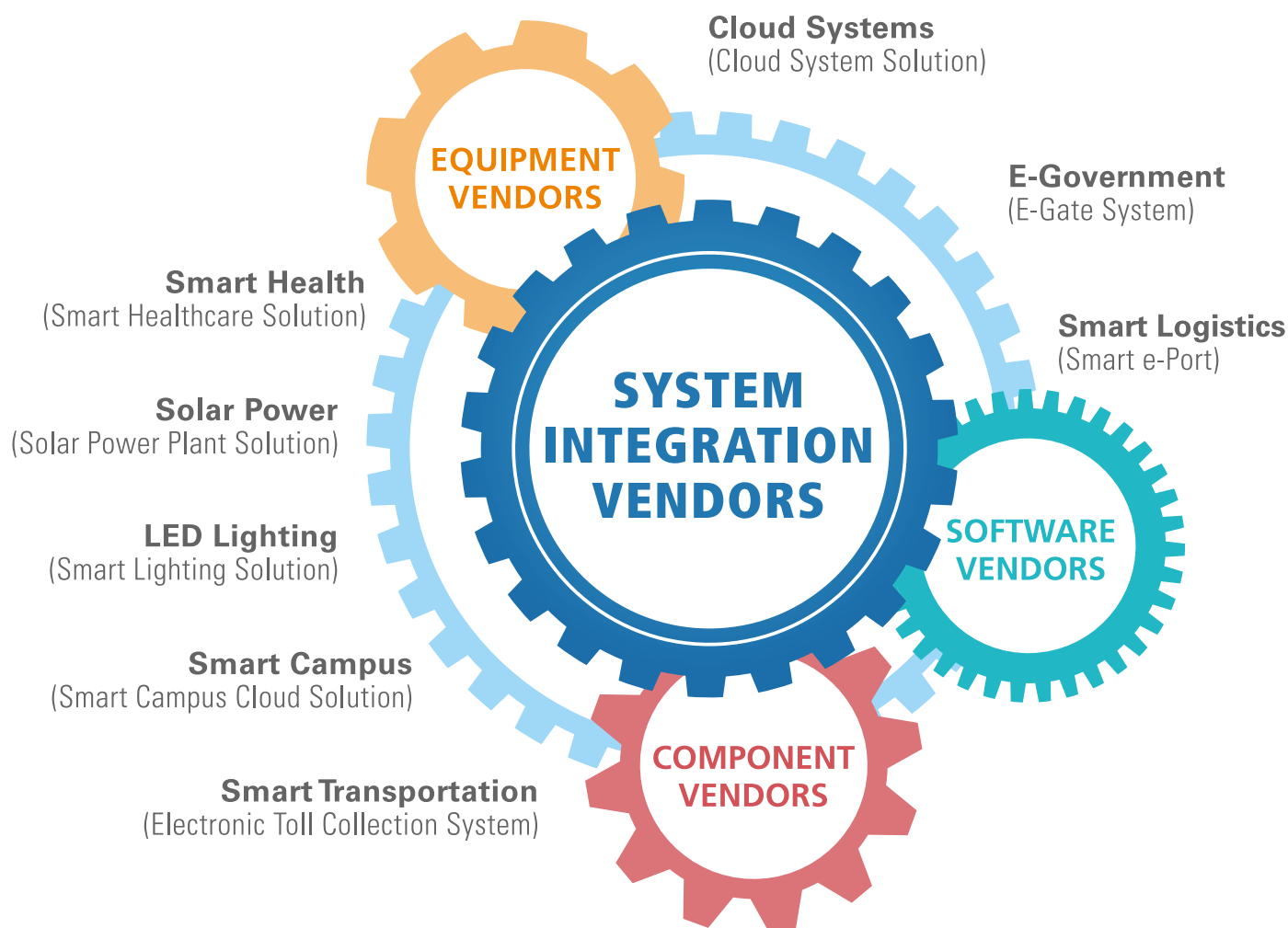
Recommended by Dr. Hsu

- UVC lamp and features an Automatic safety shut-off function
- Designed for public places like schools and hotels



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