AI Super Resolution Fidelity Recovery IC (RTD2892NND)

REALTEK

Realtek Semiconductor Corp.

瑞昱半導體股份有限公司

[Company Website](#)

Winning Reason

We live in a time of increasingly high demand for HD content, yet video quality is often compressed due to the limits of the transmission bandwith, or the video itself was shot in low resolution. If the current technology is not improved, then consumers will not be satisfied. This is why there is an urgent need for an innovative and effective solution to the problem we are currently faced with.

The innovative aspect of this product resides in its use of powerful AI hardware computing and an adaptive neural network model to calculate and restore a video to its original image quality and enhance its details. The program's recognition capabilities are also adaptable for different settings and objects. To upgrade current imaging tech to that of high quality, it only needs to be processed with an amplifying chip. This is the kind of innovation and drive that is so urgently needed for the existing content and display industries, and the market potential here is huge.

Product Feature

1. Adoption of neural network model for super resolution scaling
1-1. Restores the fidelity of low resolution video due to over-compression or destruction
1-2. Enhances the texture of original video
1-3. Removes the noise adaptively based on the content

2. Additional picture quality enhancement (e.g., sharpness and noise reduction)
3. Adaptive neural network model for different scenes and objects
4. Embedded DDR KGD for smaller footprint
5. Backend IC for an upgrade of any display device

Chenbro RM25324: Dual-load ultra-dense 2U 24-bay high-density storage chassis

CHENBRO

Chenbro Micom Co., Ltd.
勤誠興業股份有限公司

[Company Website](#)

Winning Reason

As the demand has increased for the extensibility of storage servers, smart devices, and integrated applications, so is there a need for a chassis with corresponding innovative design and new functionalities to enhance the convenience of servers and storage hard drive protection. This device uses an innovative dual-load design with over 30 patents to solve the problem of deformed bottom plates which is caused by overloading the chassis's hard drive. Space is maximized by an innovative distribution method that improves the hard drive's cooling capabilties. The device also uses a patented embossing technique to reinforce the bottom plate and has low-profile "hot-swap falcon wings" for easy manipulation while inside the confined space of a computer case. This could well lead the way for the future of server chassis innovation, and the device is already in use by many big names in the server industry.

Product Feature

RM25324 is a high-density storage server chassis designed to meet data center demands with up to 24 hot-pluggable 3.5" SATA/SAS drives in a 2U form factor. The server strikes a balance between a maximum of 24 bays storage & usability with its unique and patented Dual-load accessibility. Service, installation & repair efficiency is optimized using a tool-less design. It provides the elements for personnel to solve critical data infrastructure challenges.

AERO 17 CREATOR LAPTOP

GIGABYTE™

GIGABYTE TECHNOLOGY CO., LTD.
技嘉科技股份有限公司

Company Website

Winning Reason

This product is the latest laptop from Gigabyte designed specially for professional creators. This model stands out from previous generations and offerings from other companies by using the latest hardware, like the newest Intel i9/i7 CPU and NVIDIA GeForce 30 series GPUs while also supporting DDR5 dual channel RAM. The AERO 17 has a 17" 4K miniLED display with the world's first four-sided 3mm bezel, VESA DisplayHDR™ 1000 certification, and detailed color management with a 100% DCI-P3 wide color gamut. This laptop is no slouch in the aesthetic design department either, winning the 2022 German Red Dot Design Award, making the AERO 17 the gold standard for creator laptops.

Product Feature

■ Maximum Computing：Support 12th gen Intel® Core™ i9 / i7 H Series Processor
■Render Quicker.：Up to NVIDIA® GeForce RTX™ 3080Ti Graphic
■ Sleek Design：CNC Aluminum-alloy Unibody
■ Display Technology：GIGABYTE 1st 17" 4K miniLED Screen
■ Cinema-grade Detail：VESA DisplayHDR™ 1000 Certified
■ Realistic Colors ：100% DCI-P3 Wide Color Gamut
■AI Majordomo：Auto-adjusting Performance and Comfortable Screen brightness as Different Environments Are Detected

https://bcaward.computex.biz/

Coolant Distribution Unit (CDU)

KENMEC MECHANICAL ENGINEERING CO., LTD.

廣運機械工程股份有限公司

[Company Website](#)

Winning Reason

With the rapid development of all sorts of novel applications, the issue of cooling is becoming even more critical as servers are fitted out with various CPUs, GPUs, and AI chips. This is also leading to an inability to improve power efficiency. Current air cooling systems are unable to meet the zero carbon emmisions goals of data centers, and the shift towards water cooling technology has already become a major trend in the industry. The water cooling solution provided by this device is a system comprising an in-cabinet liquid cooling monitoring unit placed inside the server case, a cold water main unit, and a rear door heat exchange or cold plate. This forces the heat energy to be expelled, effectively reducing the server's PUE. This technology has received verification from Intel and is already in use by many big names in the server industry.

Product Feature

1. Filter design to ensure the cleanliness of the coolant inside the cabinet.
2. Redundant pump design, no downtime required.
3. International standard quick couplings for quick installation and maintenance.
4. 7" LCD touch screen.
5. Remote control system.
6. Built-in auto coolant supply pump and low coolant level alarm.
7. Maximum cooling capacity 80kW.
8. Variable frequency flow constant temperature control for warm water cooling.
9. Auto control electric motor valve.

Modern MD272 Series Business Monitor

msi

Micro-Star International
微星科技股份有限公司

[Company Website](#)

Winning Reason

The MSI MD272 series provides WQHD resolution for a wider field of view and greater detail. With patented blue light-reducing and anti flicker technology, this monitor protects your eyes while also maintaining vibrant colors and fine detail. With several user-friendly designs, such an adjustable ergonomically designed base stand, KVM switch, and internal speakers, the MD272 was awarded the 2021 German Red Dot Award. This is the pinnacle of business monitor achievement.

Product Feature

1. Inspired by Mid-century Modern Style
Modern MD272 series monitors come with clean, understated, and functionality. With a sleek & curves design, it becomes an elegant decoration in living room or office.
2. MSI Anti-Flicker, Less Blue Light PRO Eye Care Technology, Ergonomic Stand & Tool-free Design.
3. Ergonomic Software: Productivity Intelligence (P.I.)
Effortlessly increase efficiency including the most convenient KVM switch function, the proper display mode, and convenient tools.

https://bcaward.computex.biz/

ArmorX APT? Malicious Mail Forensics

ArmorX
鎧睿全球科技

ArmorX Global Technology Corporation
鎧睿全球科技股份有限公司

Company Website

Winning Reason

Armor X's proprietary ArmorX APT possesses a wide array of features, including SMTP instant traceback and multi-factor whitelist authentication, allowing you to establish an active perimeter against unknown attacks, such as APT phishing content attacks and breaches.

ArmorX APT has been hand picked by various government agencies, hospitals, financial firms, as well as enterprises within the semiconductor, service, and manufacturing industries to serve their communication protection needs.

ArmorX is patented within the European Union and has received accreditation from other internationally renowned third-party certification authorities.
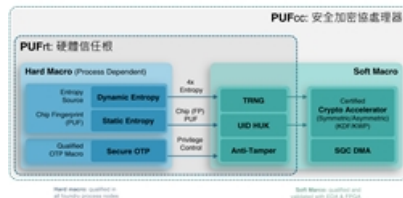
Product Feature

Global exclusive patent active unknown phishing bait defense, in-depth analysis of MUA/MTA forgery of others, springboard spam, anonymity, illegality, random numbers/time difference, BEC commercial fraud, public cloud generation (increase in recent years) and other communication behaviors,

Perfectly intercept hundreds of thousands of new unknown, malware-free phishing URLs every year; coupled with global exclusive CDR traffic cleaning, SMTP Instant Traceback, SMTP Hacker Behavior Analysis, Email/MTA dual-verification whitelisting, and eliminate BEC commercial fraud caused by e-mail release in the market of major deficiencies.

The world's exclusive APT penetration attack protection, supports Exchange OWA/ActiveSync/ROH/ECP, HTTPS/IMAP(S)/POP(S)/SMTP(S) anti-hacking scanning/Flow Cleansing/Security Proxy/Login Control by external source country. Standard features: APT IP and short-term phishing domains (30 million+), known malware signatures (40 million+), Encrypted attachments, and password parsing, time-difference URL attack defense, URL Security Scan, (URL) Malware Behavior Analysis.

PUFcc crypto coprocessor

PUFsecurity

熵碼科技

PUFsecurity Corporation
熵碼科技股份有限公司

Company Website

Winning Reason

PUFcc uses chip fingerprints generating high-quality random numbers and combines secure storage, PUF, OTP, anti-attack and cryptographic algorithms, etc., to develop an in-house innovative chip security solution. It provides a service offering high safety, low power consumption, and simplified integration. PUFcc demonstrates its professional capability through obtaining domestic and foreign patents, the certifications including NIST/OSCCA, and also the recognition of numerous internationally renowned third-party authorities. It's distributed across various international leading OEM factories and platforms, and so its availability is high, enhancing the added value of integrated chip software and hardware security and pointing to its potential for growth internationally.

Product Feature

PUFcc is the ideal Crypto Coprocessor IP that combines a Hardware Root of Trust with a full suite of cryptographic algorithms, forming the complete security IP module suitable for integration into a wide array of system architectures.
PUFcc supports all secure operations, such as 1)TEE security enhancement; 2)Key processing and generation; 3)Instant key wrapping or indirect key wrapping; 4)Key hierarchy build and advanced management; 5)Secure boot; 6)Anti-cloning and asset protection by using local key encryption; 7)TLS protocol; 8)To extend protection for external Flash, and more.
The all-in-one integrated solution takes care of all required security functions throughout the product lifecycle. Such compact design also maintains a security boundary for safekeeping sensitive information or assets intact. PUFcc enables protection from the hardware level extending all the way to OS and APPs to secure the electronic products and services.

Security Operation Center Service

中華資安國際
CHT Security

CHT Security Co., Ltd.
中華資安國際股份有限公司

[Company Website](#)

Winning Reason

CHT Security delivers comprehensive cyber security solutions which covers the detection beforehand, monitoring at all time and the forensics afterwards. In addition, CHT Security possessed with abundandt techhnology expertise, with teams ranging from Cybersecurity evaluation, assessment, reverse engineering, forensics and R&D. The team is not only know the latest virus and malware but also delivers in-depth and knowledgeable report. The team also participantes in various security drills to accumulate experiense. The team also introduced AI/ML technology, self-developed automation tools with precise alert system and cloud-based services to enhance its service capability. This service is possessed the potential for expanding internationally so is highly recommended.

Product Feature

CHT Security Co. Ltd. achieved the top rating in the Government's annual review on the Security operation center service for 6 consecutive years, and its professional strength has been deeply recognized. By Self-developed multi-log collectors, and continuously improve correlation, as well as the integration with MDR/EDR which may expedite the detection and response of cybersecurity incidents. In addition, the team caters to the client's needs for providing customized settings regarding network segment and assets, which enhance the cybersecurity monitoring visualization of risk level that it is conducive to know the status. In the same time, blue team verification tools, Breach and Attack Simulation (BAS), or red teaming are used to improve the effectiveness of monitoring and assist clients to enhance the cybersecurity protection.

Openfind Security Service

Openfind ™
Secure
雲端資安服務

Openfind Information Technology, Inc.
網擎資訊軟體股份有限公司

Company Website

Winning Reason

Openfind is the largest mail security company in Taiwan. It has won several international awards including EaaS Champion. Its excellent cloud service capabilities are highly recognized by public sector and private companies domestically and internationally. The experts of Openfind have myriad experiences of protection mail systems. Through helping users to protect from real-time attacks, process in-depth forensics of information security events, and provide high-quality analysis of threat information with AI, OSecure helps customers to strengthen their defenses, solve field problems and provide a total solutions for cyber security. The years of hard work invested by Openfind into this service makes it befitting of this prestigious award.

Product Feature

OSecure Cloud Security Service is cloud service brand by Openfind. It provides additional Email security services for corporate, especially good for Office 365/G Suite. OSecure offers advanced prevention with precision filtering technology, upgraded mail protection to ensure the security of corporate communications. Also it offers adjustable filtering settings and comprehensive review of corporate security requirements and with high-speed interception and report generation for optimal management efficiency.

https://bcaward.computex.biz/

Trend Micro Vision One

Trend Micro Incorporated
趨勢科技股份有限公司

Winning Reason

Trend Micro Vision One™ focuses on risk analysis and security insights and delivers a broader perspective and better context to detect threats with the industry-leading XDR capabilities. With native sensors and seamless integrations with Trend Micro's security stack across critical security layers, Trend Micro Vision One continuous monitors and corelates the information from vulnerabilities, abnormal behaviors, detection events, cloud app activities and account information. Trend Micro Vision One enables enterprises to assess its users and devices under attack. The security team can have a clear view on overall risk level and responds faster with an maximize efficiency by making less sophisticated security resources. Trend Micro Vision One receives recognitions from various global research firms and organizations and is a competitive solution in global market.

Product Feature

Trend Micro Vision One™ helps enterprise organizations to combat security alert overload and resource constraints with an extensible platform that provides visibility and response from a single console and enjoy the benefit from enhanced security effectiveness, business enablement and cost reduction. Trend Micro Vision One goes beyond XDR by analyzing and correlating security telemetry from endpoints, servers, cloud workloads, emails, and networks—enabling SOC teams to prioritize and respond to threats more effectively. Current customers have benefitted from:
• Cost reduction. Vendor consolidation, automation, more efficient triage and investigation and fewer successful attacks could enable cost savings of 63% for Trend Micro Vision One customers and 79% by leveraging Trend Micro's Managed XDR service.
• Visibility & threat intelligence. Cross-layer detection models, along with security risk visibility supported by Trend Micro Research insights, enable enterprises to see complex attacks and particular points of security risk that siloed solutions miss. In preview, are new insights into SaaS application usage, their risk levels and trends over time.
• Zero in Risk Insights. Observe and evaluate your entire environment, including the identities, devices, applications, and content that may pose a threat to your organization.
• Simplified management. Ability to adjust security policies and drive response actions across security layers from a single console instead of swivel chair management

HEIMDALL Facial Recognition & Thermal Scan Access Control

MAXNERVA TECHNOLOGY SERVICE INC.

雲智匯科技服務股份有限公司

[Company Website]

Winning Reason

The years 2021 to 2022 were when human society faced its biggest challenges posed by the COVID-19 pandemic, yet this was also the time that proved the flexibility and creativity of Taiwan's ICT industry in dealing with these changing circumstances. This product is, in essence, an access control device, but under the demands imposed by the pandemic it quickly integrated facial recognition, temperature reading, and NFC and related software to meet the crowd control and anti-epidemic demands of medical facilities, schools, retail stores, offices, and community spaces. This device also has a comprehensive content management system that can greatly reduce stress on system integrators and the IT and HR departments of a company. Since its release, this device has already become common for a number of pandemic prevention uses both in Taiwan and internationally, with the most illustrative examples being its use in the U.S. city of Avenal, California, and the country's largest chain of dialysis centers, DaVita—clear indications of the innovation of Taiwan's ICT industry.

Product Feature

Due to the pandemic need of Covid-19, the Facial Recognition are Thermal Scan Access are correspond to the needs of enterprises.
Mask detection, body temperature measurement, and even the alcohol spray device can further conduct basic check on our health, and create a safe and reliable environment.

https://bcaward.computex.biz/

Z690 AQUA OC

ASRock Inc.

華擎科技股份有限公司

Winning Reason

This product has all-around enhanced cooling efficiency thanks to its innovative water cooling design, improved radiator fin thickness, and ultra-high heat conductive thermal grease. This hardware design is for high frequency players, with a 12-layer sever-grade low-loss PCB full coverage water coolant block that delivers extreme cooling for the CPU and power modules. It has 2oz copper PCB for greater heat capacity. Put this all together and it is no wonder gamers love this motherboard.

Product Feature

1. OC Design: Z690 AQUA OC is equipped with 12 layers server-grade PCB and OC buttons.
2. AQUA Cooling Armor: the custom water cooling block is designed to dissipate the heat of CPU and VRM, and its eye-catching RGB LED and metal texture shows the elegance and beauty.
3. Killer Networking: It allows users to use both Ethernet and Wi-Fi interface simultaneously to ensure that high priority task will be handled by the fastest network interface.

https://bcaward.computex.biz/

AORUS FO48U Gaming Monitor

GIGABYTE™

GIGABYTE TECHNOLOGY CO., LTD.

技嘉科技股份有限公司

Company Website

Winning Reason

For the best visuals, nothing beats the world's first 4K, 120Hz OLED large screen gaming monitor. Complete with the latest HDMI 2.1, it is perfect for 4K 120fps gaming. The 48 inch monitor has an OLED panel, 4K UHD resolution, HDR, 10 bits color depth, and 98% DCI-P3. With a 130% coverage rate, the FO48U's sRGB provides for a super wide color gamut that is difficlt to beat on the market.

Product Feature

1.The world's first 4K, 120Hz, OLED big-screen gaming monitor. Equipped with the latest HDMI 2.1 with DSC, it is perfect for latest console games at 4K 120fps for better visual quality.
2.The 2.1 channel system and the exclusive sound reinforcement techniques offer marvelous sound quality beyond average gaming monitors.
3.A series of image retention prevention procedures help to extend the OLED panel life.

https://bcaward.computex.biz/

GeForce RTX 3090 Ti SUPRIM X 24G

msi

Micro-Star International

微星科技股份有限公司

Company Website

Winning Reason

With its "Change the Game" philosophy, MSI has integrated aesthetic design with high quality. The SUPRIM series is more than just your typical high-end graphics card. The airflow control passes air through cooling fans for superior cooling efficiency without the noise, while the airflow control plate allows for a greater cooling surface area leading to optimum cooling. High functionality and impeccable quality—this product has both in spades.

Product Feature

 • Built around the GeForce RTX 3090 Ti, the SUPRIM cards are designed for performance, efficiency, and prestige.
 • Cooled with TRI FROZR 2S, heat is effectively dissipated from critical board components with TORX FAN 4.0, up to 8 Core Pipes, Airflow Control fins and a copper base plate.
 • Brushed aluminum on the exterior of the cooler and the backplate impart an armored aesthetic .
 • RGB Mystic Light flows with millions of colors and the dynamic lighting options will dazzle onlookers.

https://bcaward.computex.biz/

Trident Z5 RGB DDR5 Memory

G.Skill International Enterprise Co., Ltd.
芝奇國際實業股份有限公司

Company Website

Winning Reason

The Trident Z5 RGB is the next generation DDR5 high-speed desktop memory in the Trident series. It uses high quality IC and superior materials that have all been rigorously tested. G.SKILL's patented light guide tech provides superior functionality and stylish RGB light effects, an all-new PMIC power source solution, and an exposed streamlined design. With a frequency tested at 7000 MT/s (the market-standard DDR5 is 4800 MT/s CL40) the Trident Z5 RGB's DDR5-6400 CL32 is the lowest latency kit available at such speed. The original streamlined cooling design gives it a super fast look that won it the 2022 German Red Dot Design Award. The Trident Z5 RGB is sure to be a hit on the market.

Product Feature

-First to pass 7000MT/s high-speed stability burn-in test
-Highest frequency memory kit at DDR5-6600 CL34
-Lowest latency DDR5 memory kit at DDR5-5600 CL28
-First 64GB (32GBx2) memory kit at DDR5-6000
-Patented light bar design, optimized for unhindered vibrant RGB lighting
-Precision crafted CNC heatspreader with streamlined fins & slim body
-Premium aluminum alloy heatspreader design, with fine-sandblasted & hairline finish surfaces
-Customizable RGB lighting control with >10 effects

https://bcaward.computex.biz/

Titan GT77 gaming laptop

Micro-Star International
微星科技股份有限公司

[Company Website](#)

Winning Reason

The all-new Titan GT77 model has an innovative cooling design. With high-end gaming expected to reach 15% of the market in 2022, market sales are predicted to reach 120,000. The Titan GT77 has dual coolant modules with seven heat pipes for extreme cooling capacity, especially when Cooler Boost is activated.

This year's all-new Titan GT77 model comes with five high-efficency cooling technologies and the world's thinnest fan blades measuring in at just 0.1mm. This is not the last you'll see from this laptop.

Product Feature

When it comes to performance, the Titan GT77 must be at the top of the list. With the latest 12th gen Core i9-12900HX processor and NVIDIA RTX 3080 Ti graphics, the new Titan GT77 helps you dominate your gaming battlefield.

With MSI OverBoost technology, the Titan GT77 earns extra horsepower by unlocking the full power of GPU and CPU together. It delivers up to 175 watts of graphics power plus additional 55 watts from the CPU-- that is a mindblowing 230 watts of full power in total!

J7EF Gaze AR Smart Glasses

Jorjin Technologies Inc.
佐臻股份有限公司

[Company Website](#)

Winning Reason

Jorjin J7EF Gaze smart glasses track eye movement, including direction, speed, distance, object of focus, and changes in pupil radius. The glasses can meet different pupillary distance and diopter needs to provide a consistent experience across different users.

By integrating many sensors with the highly coordinated "head, hand, and eye" mechanism, users can operate the AR smart glasses more naturally, intuitively, and precisely. The device's human-centered interface improves the user's experience and sense of immersion while also accelerating the arrival of the metaverse. The glasses increase the speed and intuitiveness of testing, recognition, and spacial analysis while also supporting the integration of the virtual and the physical with the metaverse.

Product Feature

1. Extremely clear 2D/3D immersive effect brings an incredible visual experience.
2. Multiple sensors comprising a eye tracking module, camera, a Time-of-Flight sensor (ToF) and an IMU support eye tracking, gestures recognition and head movements.

Industrial 5G NR Wireless IoT Gateway with 5-Port 10/100/1000T

PLANET
Networking & Communication

PLANET Technology Corporation
普萊德科技股份有限公司

[Company Website](#)

Winning Reason

The PLANET ICG-2515W-NR is based on 5G NR and WiFi-6 technology. It is the world leader in cellular gateways, with dual SIMs and WAN, low latency, and high transmission. PLANET values network information security and can meet the future demands of government, telecoms companies, and systems integration. The device has received wide praise, having already won a 2022 Taiwan Excellence Award and having a global market share that is increasing daily.

Product Feature

◎ 5G NR (NSA/SA) with dual SIM
◎ Dual-Band Wi-Fi 6 data rate of 1800Mbps
◎ Dual WAN load balancing
◎ Built-in captive portal with RADIUS authentication
◎ Industrial-grade VPN protection, Cybersecurity, SPI firewall and IPS
◎ Support Modbus TCP, MQTT, SD-WAN, centrally manage wireless AP, high flexibility in network application
◎ IP30 metal case, operates in -40 to 75° C
◎ Supports PLANET Network Management System and CloudViewer App

**Embedded Edge AI computing
Workstation**

AAEON®
an *ASUS* assoc. co.

AAEON Technology Inc.
研揚科技股份有限公司

Company Website

Winning Reason

The AAEON BOXER-8240AI uses a powerful Nvidia GPU for its huge computing power. With its compact, fanless design and Kubernetes container orchestration system, this Edge system work station is number one for global market share. Coupled with a flexible range of I/O features and an industrial rugged design, the device is particularly well-suited for the conditions brought about during extreme engineering projects, like the vibrations from a driverless bus or the pounding of a pile driver.

Product Feature

- Under compact size and a 60W full power consumption on CPU and GPU, BOXER-8240AI capable to be an Edge workstation, and easily handle the Kubernetes Master in Scale.
- The unique PoE, M.2 M+E, and 40 pins programable GPIO that specially support aerospace, Autonomous, and healthcare instrument.
- The Pre-installed AAEON customized Linux supports and adapts Secure boot and Trust zone, and allows developers easily transplanted the model to the edge of the device.

https://bcaward.computex.biz/

Podcast AI Audio Mixer | MicLIVE™ 6-CH

ATEN INTERNATIONAL CO., LTD.

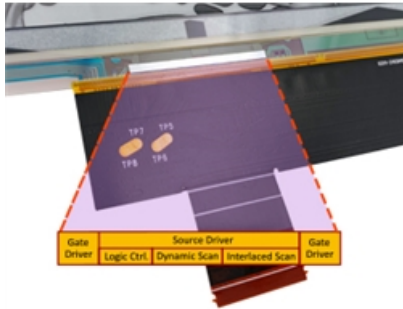宏正自動科技股份有限公司

[Company Website](#)

Winning Reason

This product was made specially for the podcast market with several mixing features in an all-in-one design, including six channels for audio input. With its customizable audio effect jingle pads and human-robot collaborative design, it lowers the barrier to entry for podcasting and allows for easy operation by a single person. Using AI machine learning equalizer algorithms, it can intelligently reduce noise and adjust audio for the recording environment, allowing for high quality audio recording in real time even in poor audio conditions. This product can optimize the speaker's voice in real time for a polished audio experience.

Product Feature

1. All-in-one design simplifies audio mixing workflow
2. Enhances microphone audio quality with enhanced acoustic models, AI SmartEQ
3. Jingle pads save up to 8 sound effects that can be customized
4. Contains 24 Voice FX programs
5. Diversified input interface options such as XLR combo microphones, musical instruments, USB audio sources, and phone-in
6. Built-in preamp that provides gain; reliable +48V phantom power for condenser microphones
7. Intuitive software gives users complete control

https://bcaward.computex.biz/

E Ink Driver IC with Dynamic and Interlaced Scan by AI Computing

E Ink Holdings Inc.
元太科技工業股份有限公司

Company Website

Winning Reason

Dynamic scanning increases the reaction time when writing on the display while the scanning position is determined by AI calculations and SoC image analysis. Dynamic scanning can decrease latacy up to 11.7ms.

When using IC drivers with color filters, the use of AI image processing and Gate interlaced scanning optimizes the color E-ink power consumption and activates the pixels of color images on SoC. Together, this determines the optimum scanning mode and driver for color images on E-ink displays.

The interlaced scanning enabled by the IC allows for a huge reduction in E-ink power consumption measuring in at a 40% to 60% drop for color images.

Product Feature

1. Dynamic Scan - Improving handwriting speed
2. Interlaced Scan - Reducing power consumption
3. AI algorithm was developed on the SOC for image analysis

https://bcaward.computex.biz/

Bluetooth Dual Mode Audio Watch Solution (RTL8763E)

REALTEK

Realtek Semiconductor Corp.
瑞昱半導體股份有限公司

[Company Website](#)

Winning Reason

- Original Bluetooth dual mode audio watch option

- Dual core x low power consumption x high computing power x high capacity wearable platform

- AMOLED display (454x454), supporting various physiological health and sport data collection. One Solution, Two Applications (Watch & TWS), More possibilities

- Latest BT5.3 Logo supports the latest BLE Audio (LC3/CIS/BIS)

- Supports Hybrid ANC active noise cancellation and NN NR algorithms for Clean Voice

- Supports OPUS Encoder dock, AI audio assistant ecosystem

Product Feature

1. 3rd Generation Watch Solution for Personal Assistant Watch
2. Two Applications one Solution: Watch and TWS…same solution.
3. Twin Dual Modes: 1st Dual mode (BLE/Classic Data), 2nd Dual mode (BLE Audio/Classic Audio)
4. BLE Audio: LC3/32K Voice/CIS and BIS/Latency < 20ms
5. Better Display: AMOLED 454x454 (QSPI 80MHz)/DMA UI ACC Engine
6. NN 2-MIC NR (AEC) & Hybrid ANC: 2-Mic NR(AEC)/ANC for Clear Voice and Listening
7. Local Music Playback Phone-Free: Audio DAC: 96kHz/24bit/106dBA SNR

AMR-AI-PJ-UVGI Robot

msi

Micro-Star International
微星科技股份有限公司

[Company Website](#)

Winning Reason

This anti-epidemic robot joins together autonomous navigation with mobile disinfection and sterilization into one device. It is compatible with multiple communications techologies, can automatically detect and avoid obstacles, and has smart route planning capabilities. It emits UVGI light at a wavelength of 253.7nm. This short wavelength UVC and high energy radiation disinfects by destroying the DNA or RNA found inside microorganisms without leaving behind chemicals or residues. It is suitable for use in hospitals, long-term care homes, public spaces, and anywhere that sees a lot of human traffic. In the day it can be used to automatically purify the air, while at night it can thoroughly disinfect using its UV light for effective reduction of viral transmission.

Product Feature

With 253.7nm wavelength UVGI, not using chemicals, won't produce surface pollution. Disinfect air pathogens, mold, viruses, bacteria, and other microorganisms, achieving a comprehensive purification of air.
Verified by Texcell/France to effectively inactivate new SARS-COV2 virus within seconds under research conditions.
Active AI air-switching sterilization and surface disinfection body safety protection mechanism.
Mutual voice and light prompt, achieving safe coexistence between human and robot

https://bcaward.computex.biz/

Video Telematics and Management Solution

MiTAC Digital Technology Corporation
神達數位股份有限公司

Company Website

Winning Reason

This product integrates big data, AI facial recognition, ADAS, and IoT to provide a private and data-secure networked dash cam and fleet management platform. By monitoring driver behavior and providing warnings and accident analysis, MiTAC can help prevent accidents. And with multiple data storage options, video file format, and blockchain integration, it is useful for reproducing evidence following an accident. This total solution was designed/ manufactured by MiTAC, as well as the platform services.

Product Feature

-High Resolution Video Clip
-Duo Edge AI computing Camera for ADAS & DMS
-Full-Time Parking Surveillance and Real-Time Monitoring
-Customizable Event Tag by variant needs
-4G LTE Wireless Communication
-Support up to 4 expansion cameras (selected model only)
-Duo SD Card (selected model only)
-Fleet Management Platform with Driver Risk Analysis
-Plug-n-Play Quick-Installation Design
-Data Security: Ensure data integrity, video storage safety and anti-hacker mechanism

https://bcaward.computex.biz/

Gesture Control Solution

COOLSO

Coolso Technology Co., Ltd.
酷手科技股份有限公司

Company Website

Winning Reason

A human-computer interface and gesture recognition device using patented biosensor technology. It has a lightweight design that works in all weather conditions, low power consumption, and is easily integrable. Worn on the wrist, it detects the movements of the muscles and applies AI to recognize the movements of individual fingers for greater gesture recognition. As a replacement for traditional remote control devices, it can operate all kinds of electronic equipment and has applications in IoT, AR/VR headset displays, smart glasses, and gaming as well as medical and rehabilitation devices.

Product Feature

Compact Gesture Control Device
Patent Technology using IMU to detect hand muscle movement.
Uses AI Model to identify separate finger for multiple gestures.
Efficient energy consumption makes it easy to cary and enables long duration outdoor use, also can be integrated with other devices.
Stable performance and Immune to environmental interference

https://bcaward.computex.biz/

Long-Distance Hedge Intrusion Detection Solutions

Beseye Cloud Security Co.,Ltd.
雲守護安控股份有限公司

[Company Website](#)

Winning Reason

The Beseye long distance hedge intrusion detection system uses technology that analyses the unique body posture presented when a person climbs over a wall to increase the accuracy of intrusion detection. This is an improvement over older infrared light or later AI image monitoring systems which had limited accuracy and a high occurance of false alarms. The Beseye system utilizes AI to track the human body, analyse body posture, and determine whether or not an intruder is climbing over a wall. The system is currently undergoing tests in many locations with a plan in place for the future sales strategy.

Product Feature

Higher Accuracy
4000 distinct biometric points distributed across the human body, to determine posture, action and relevance to the fence, yielding a pinpoint accuracy of 99.95%.

Longer Detection Range
Auto-adjust ratio of resolution to elongate AI detection range to 50 meters.

Reduced Cost
Auto-track suspicious activity along the fence. Beseye avoids what conventionally requires high computing costs, by analyzing designated ROIs only; hence the $3000 USD.

Medical Grade OR All In One Touch Panel PC Comet Lake 24 Inch

Wincomm Corporation
中美萬泰科技股份有限公司

[Company Website](#)

Winning Reason

The Wincomm WMP-24M has patented antimicrobial touch control technology that integrates an antibacterial aluminum housing in a beautiful design with a first-ever internal power supply to ensure safety throughout medical operations. It has the latest 10th generation Intel CPU, a simplified motherboard design, powerful cooling technology, and high speed input/output expansion slots.

Product Feature

*Intel® Comet Lake Core i CPU
*Power Adapter Inside Secure Operating Procedure Safety
*Anti-bacteria Aluminum Housing
*23.8" FHD AHVA (IPS) Diagnostic Panel
*Optional Optical Bonding/AG Film
*Optional Full HD Capture Card
*LAN/COM 4KV Isolated Module
*Optional DICOM Part 14
*Support Video-In with Color Adjustment & DP x 1, HDMI x 1 for Extended Display Output
*Support Windows 11 & fTPM
*Passed the Latest Medical Safety (MDR) & EMC Certification