HONG KONG ELECTRONICS SYMPOSIUM 2026

"THE NEXT GENERATION OF AI: POWERING MOBILITY AND INNOVATION"

VENUE	Grand Ballroom, Royal Plaza Hotel, Mongkok
DATE	11 May, 2026 (Mon)
TIME	9:00AM - 5:00PM

Join us at the Hong Kong Electronics Symposium 2026 to explore "The Next Generation of AI: Powering Mobility and Innovation." We will gather leading experts from Chinese Mainland and overseas to share insights on how AI is transforming transportation, smart infrastructure, and industrial systems—an excellent opportunity to connect, learn, and be part of the future of intelligent innovation. This year's program will highlight emerging applications that are reshaping global mobility trends. Attendees can also engage with innovators driving forward next-generation sustainable and smart technologies.

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THE HONG KONG INSTITUTION OF ENGINEERS
香港工程師學會

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廣東省工程師學會 The Guangdong Institution of Engineers

ITS HONG KONG

8:30 - 9:00 | Registriation		
9:00 - 09:05	Welcome Speech	**Ir Dr. YH SHUM** Chairman, HKIE Electronics Division
9:05 - 09:10	Opening Speech	**Ir Prof. Frank F CHAN, GBS, JP** Senior Vice President, HKIE
09:10 - 09:30	Award Presentation for Hong Kong Electronics Project Competition 2026 (HKEPC2026)	
09:30 - 09:55	Keynote Speech Accelerating AI and Digital Economy Development in Hong Kong	**Mr. Daniel CHEUNG, JP** Acting Commissioner for Digital Policy Digital Policy Office Hong Kong SAR Government
09:55 - 10:00	Group Photo	
10:00 - 10:05	Address from GuangDong Institute of Electronics	**Prof. Cairong ZOU** Chairman GuangDong Institute of Electronics
10:05 - 10:30	Talk 1 Empowering by AI+: Challenges in the New Tech Era	**Ir Prof. Hon William Kam-fai WONG** Vice Chairman & Secretary General, HK Alliance of Technology and Innovation Advisor, Our Hong Kong Foundation Legislative Councillor
10:30 - 10:55	Tea Break	
10:55 - 11:20	Talk 2 Co-GenAI: A Novel Fusion-Driven Framework	**Prof. Hongxia YANG** Associate Dean of the Faculty of Computing and Mathematical Sciences and Executive Director of the PolyU Academy Hong Kong Polytechnic University
11:20 - 11:45	Talk 3 A Global-Oriented Standards Framework work for the Low-Altitudes Economy	**Prof. Chitin HON** Professor, Faculty of Innovation Engineering, Macau University of Science and Technology Chairman, IEEE CTSoc Low-Altitude Economy and Smart Applications Standards Committee
11:45 - 12:20	Panel Discussion (Morning) Standardization and Current Development of AI	**Facilitator** **Ir Prof. Kim-fung TSANG** Council Member, HKIE Past Chairman, HKIE Electronics Division **Panelists** **Hon Duncan CHIU, MH** Legislative Councillor **Prof. Chitin HON** Professor, Faculty of Innovation Engineering, Macau University of Science and Technology Chairman, IEEE CTSoc Low-Altitude Economy and Smart Applications Standards Committee **Ir Prof. Hon William Kam-fai WONG** Vice Chairman & Secretary General, HK Alliance of Technology and Innovation Advisor, Our Hong Kong Foundation Legislative Councillor **Prof. Hongxia YANG** Associate Dean of the Faculty of Computing and Mathematical Sciences and Executive Director of the PolyU Academy Hong Kong Polytechnic University
12:20 - 12:30	Group photo & souvenir presentation	
12:30 - 14:00 | Lunch		

12:30 - 14:00 | Lunch		
14:00 - 14:15	Keynote Speech **Co-Creating Smart Mobility: Hong Kong's Exponential AI Journey**	**Ir Vincent CHOW, JP** Acting Director Electrical and Mechanical Services Department Hong Kong SAR Government
14:15 – 14:35	**Talk 4 From Data to Movement: AI for the Next Generation of Smart Micro-Mobility**	**Mr. Steve NG** General Manager and Chief Research Officer LocoBike
14:35 - 14:55	**Talk 5 AI-Powered Mobile Traffic Control and Surveillance System for Enhancing Road Safety in Hong Kong**	**Mr. Eric LEUNG** IT Project Manager Autotoll Limited
14:55 - 15:20	**Tea Break**	
15:20 - 15:40	**Talk 6 Hikvision Guanlan AI Large Model: Breaking the Isolation of Vision and Language, Facilitating Digital Transformation in Thousands of Industries**	**Mr. House ZHU** Business Development Manager Hikvision Technology Pte. Ltd.
15:40 - 16:00	**Talk 7 Intelligent New Chapter · Smart Hong Kong — Innovative Applications of AI in Digital Governance and Smart City Development**	**Dr. Peng WANG** Vice President of R&D and Chief Architect of Huawei's Government Public Service Digitalization BU Huawei
16:00 - 16:20	**Talk 8 Using Physics-based Models and AI for Virtual Manufacturing of Batteries**	**Dr. Masoud JABBARI** Assistant Professor and Deputy Director of Postgraduate Research Assistant Professor, School of Mechanical Engineering, University of Leeds (UK) Visiting Researcher, School of Physics and Engineering, University of York (UK)
16:20 - 16:55	Panel Discussion (Afternoon) **Next Generation of AI for Smart Mobility and Sustainable Cities**	**Facilitator** **Mr. Simon K Y Wong, MH** Chief Executive Officer Logistics and Supply Chain MultiTech R&D Centre **Panelists** **Mr. Karel AU** Chief Executive Officer Autotoll Limited **Mr. Ken CHING** Chairman LocoBike **Dr. Masoud JABBARI** Assistant Professor and Deputy Director of Postgraduate Research Assistant Professor, School of Mechanical Engineering, University of Leeds (UK) Visiting Researcher, School of Physics and Engineering, University of York (UK) **Ir Timothy WONG** Senior Engineer Electrical and Mechanical Services Department Hong Kong SAR Government **Dr. Peng WANG** Vice President of R&D and Chief Architect of Huawei's Government Public Service Digitalization BU Huawei
	Group photo & souvenir presentation	
16:55 - 17:00	**Closing Speech**	Ir Andy LAM OC Chairman, HKES 2026 Deputy Chairman, HKIE Electronics Division

Welcome Message

Morning Session

Ir Dr. YH SHUM

Chairman
HKIE Electronics Division
Session 2025 - 2026

Ladies and Gentlemen,
Welcome to the Hong Kong Electronics Symposium 2026

As we convene for the 14th flagship edition of this pioneering event—a legacy of innovation since 2013—we stand at the precipice of a transformative era. This symposium is not merely a gathering; it is a catalyst for the next quantum leap in technological advancement, hosted by the Electronics Division of HKIE.

In alignment with the groundbreaking Policy Address by our Chief Executive, Mr. John LEE, Hong Kong is poised to become a nexus for artificial intelligence and data science. With the imminent establishment of key projects such as the Hong Kong Artificial Intelligence Research and Development Institute and the launch of strategic AI flagship projects—including the revolutionary "AI Patient Risk Prediction System"—we are scripting the future of intelligent ecosystems.

Echoing these forward-looking initiatives, our symposium theme, "*The Next Generation of AI: Powering Mobility and Innovation,*" embodies the synergy of intelligent systems, seamless connectivity, and sustainable progress. Today, we bridge the realms of research, industry, and governance to explore how AI-driven solutions will redefine mobility, accelerate the evolution of smart cities, and forge new international standards.

We are privileged to host an exceptional assembly of trailblazers and thought leaders, including: Mr. Yee Wai Daniel CHEUNG, Acting Commissioner for Digital Policy, will deliver a morning keynote on Hong Kong's AI and Economic Development. Ir Vincent CHOW, Acting Director of the Electrical and Mechanical Services Department, will deliver an afternoon keynote on Hong Kong's AI Journey on Smart Mobility.

Our program is further elevated by:
An opening address from Ir Prof. Frank CHAN, HKIE Senior Vice President. A visionary video address from Prof. Cairong ZOU, Chairman of the GuangDong Institute of Electronics (GDCIE). Two Legislative Councillors, Hon Duncan CHIU and Ir Prof. Hon William WONG, are on the morning discussion panel.

Welcome Message

Morning Session

Throughout the day, pioneers from public bodies, academia, and industry—both local and global—will decode how AI is shaping tomorrow. From AI ethics and autonomous systems to data-driven sustainability, their discourse will illuminate how evolving standards can harness AI's full potential to fuel economic growth and resilience worldwide.

On behalf of the Organising Committee, I extend my deepest gratitude to our sponsors, supporting organisations, and esteemed speakers, whose commitment propels this flagship event into the future. Special recognition also goes to the dedicated Organising and Steering Committees, whose relentless behind-the-scenes efforts have crafted this immersive experience.

Today's symposium is designed to be more than informative—it is an interactive platform for collaboration, discovery, and inspiration. We invite you to engage deeply, challenge conventions, and leave equipped with actionable insights to navigate and lead in the era of intelligent technology.

Welcome to the forefront of innovation. Let's code the future, together !

Speaker Profile

Morning Session| Opening Speech

Ir Prof. Frank F CHAN, GBS, JP

Senior Vice President
HKIE

Biography

Ir Prof. Frank Chan is the Senior Vice President of the Hong Kong Institution of Engineers. He is a Fellow of the Hong Kong Academy of Engineering, an Honorary Fellow of the Institution of Mechanical Engineers, United Kingdom, and a Fellow of the Hong Kong Institution of Engineers.

He is currently a Hong Kong Deputy to the National People's Congress, a Deputy Council Chairman of the Great Bay Area Federation of Engineering Organisation, the Steering Committee Chairman of the Otto Poon Institute for Climate-Resilient Infrastructure of the Hong Kong Polytechnic University, an Honorary Professor of the University of Hong Kong, an Honorary Advisor of the Hong Kong Federation of Electrical and Mechanical Contractors and the Hong Kong Civil Servants General Union, as well as an independent non-executive director of the China Resources Land Limited, the China State Construction International Holdings Limited and the Beijing Urban Construction Design & Development Group Company Limited.

He was the former Secretary for Transport and Housing, overseeing policy and strategy, development and implementation of housing, logistics, air services, land and maritime transport.

Prior to that, he was the Director of Electrical and Mechanical Services, spearheading policy initiatives and law enforcement on energy efficiency and safety of railway, tramway, ropeway, gas, electricity, lift, escalator and nuclear power; and providing professional advice and service to bureaux, departments, and statutory bodies in the capacity of General Manager of the Electrical and Mechanical Trading Services.

Speaker Profile

Morning Session| Morning Keynote Speech|Accelerating AI and Digital Economy Development in Hong Kong

Mr. Daniel CHEUNG, JP

Acting Commissioner for Digital Policy
Hong Kong SAR Government

Biography

As the Acting Commissioner for Digital Policy, Mr Daniel CHEUNG leads the Digital Policy Office in promoting data-driven, people-centric and outcome-based digital policies within the Government and across sectors. In addition to devising strategic plans for the promotion and implementation of digital transformation in public services, as well as promoting the adoption of information technology (IT) in the community and various industries, Mr CHEUNG is dedicated to encouraging government bureaux and departments to widely apply artificial intelligence in day-to-day administrative tasks for delivery of more efficient and intelligent public services, benefiting both citizens and businesses. Mr CHEUNG also oversees and promotes the development of local digital infrastructure and digital industry, and the strengthening of governance of government IT projects and cybersecurity, etc. Mr CHEUNG is committed to fostering IT collaboration with the Chinese Mainland, and supporting Hong Kong's better integration into the overall national development. Mr CHEUNG also oversees the Government's budget for administrative computer projects, and the procurement of IT products and services.

Keynote summary

Aligned with the latest 2026-27 Budget Speech, Hong Kong is accelerating its transformation into a premier hub for digital innovation. This presentation outlines the Government's strategic priorities for driving "AI+" development and cultivating a resilient, future-ready digital economy.

To realise this vision, Hong Kong is actively expanding its robust digital infrastructure and world-class research and development capabilities. This session will explore how the Government is leading by example, integrating AI to empower public services while simultaneously establishing robust governance frameworks. By striking a balance between innovation and risk mitigation, Hong Kong is building a secure, ethical, and sustainable environment for AI deployment.

Speaker Profile

Morning Session| Morning Keynote Speech

A thriving digital economy also requires seamless digital integration and broad societal readiness. Attendees will learn about inclusive initiatives designed to advance AI literacy of the public. The presentation will also highlight key advancement in next-generation digital identity platforms for both citizens and businesses, alongside critical milestones achieved in facilitating secure cross-boundary data flows.

Finally, the session will provide an overview of the current industry support schemes driving the AI ecosystem forward. Join us to discover how these coordinated policies, infrastructure investments, and talent development strategies are creating unprecedented opportunities for all.

Speaker Profile

Morning Session| Address from GuangDong Institute of Electronics

Prof. Cairong ZOU

Chairman
GuangDong Institute of Electronics

Biography

邹采荣 二级教授、博士、东南大学博士生导师，国务院政府特殊津贴专家，教育部新世纪优秀人才。1984年9月南京工学院水声工程专业毕业获学士学位、1987年3月南京工学院信号与信息处理学科获硕士学位、1991年5月东南大学信号与信息处理学科获博士学位、1991年12月至1993年1月加拿大康科迪亚大学工学院电子工程系博士后；1995年1月至1996.12荷兰飞利浦公司消费电子部高级技术经理。1997年任东南大学科研处处长；1999年5月任东南大副校长；（期间1998年至2005年任江苏金智科技股份有限公司【002090】董事长；1999年至2005年教育部赛尔网络有限公司副董事长）；2006年5月至2013年12月先后任佛山科学技术学院院长；2014年1月至2016年9月任广州大学校长； 2016年9月至2024年3月任广州航海学院校长。

现为国家重点研发计划课题首席科学家、广东省电子学会理事长。曾任科技部十五863计划主题专家、教育部第五届、第七届科技委信息学部委员；国家科技部国家工程技术研究中心终审专家；国家发改委高技术司工程技术中心评委以及江苏省委政策研究室咨询专家等。

邹采荣教授主要从事信号与信息处理领域的研究，在模式识别、数字信号处理、图像处理、人脸识别等方面进行了深入研究，取得丰硕成果。近年来主要从事数字语音信号分析和处理，重点研究数字助听器芯片和算法研究，已成功开发国内唯一能替代美国安森美公司商业化芯片，并被科大讯飞等公司采用。已完成主持或参与国家重点研发计划项目、国家863研究项目、国家科技攻关项目、国家自然科学基金项目等课题50多项。至今已发表论文700余篇(其中SCI 、EI 收录200余篇),已授权和正在申请并受理发明专利88项。曾获教育部自然科学一、二等奖、江苏省科学技术进步二等奖等10项省级奖项。

Speaker Profile

Morning Session| Empowering by AI+: Challenges in the New Tech Era

Ir Prof. Hon William Kam-fai WONG

Vice Chairman & Secretary General, HK Alliance of Technology and Innovation
Advisor, Our Hong Kong Foundation
Legislative Councillor
Associate Dean (External Affairs), Faculty of Engineering, CUHK

Biography

Kam-fai Wong is the Associate Dean (External Affairs) of the Faculty of Engineering, Professor in the Department of Systems Engineering and Engineering Management, Director of Centre for Innovation and Technology, The Chinese University of Hong Kong.

Prof. Wong's research interest primarily focuses Chinese computing, database and information retrieval. He's an ACL Fellow and is very active in professional and public services. He serves as Member of the 13th & 14th National Committee of the CPPCC, Member of the 7th and 8th Legislative Council of the HKSAR, Advisor of Our Hong Kong Foundation, Vice-Chairman of Hong Kong Professionals and Senior Executives Association, Vice Chairman & Secretary General of Hong Kong Alliance of Technology and Innovation, Director of Finance Dispute Resolution Centre, Executive Member of Council for the Promotion of Guangdong-Hong Kong-Macao Cooperation, Member of the Standing Committee of Shenzhen Association for Science and Technology, and Advisor of Guangzhou Association for Science and Technology, Director of Huawei-CUHK Foundation Models and Interactive Intelligence Innovation Laboratory,etc.

Prof. Wong was awarded the Medal of Honour (MH) by the HKSAR Government in 2011 for his contributions to IT development in Hong Kong.

Speaker Profile

Morning Session | Co-GenAI: A Novel Fusion-Driven Framework

Prof. Hongxia YANG

Associate Dean of the Faculty of Computing and Mathematical Sciences and
Executive Director of the PolyU Academy
Hong Kong Polytechnic University

Biography

Prof. Hongxia Yang, Associate Dean of the Faculty of Computing and Mathematical Sciences and Executive Director of the PolyU Academy for AI (PAAI), is a Chair Professor at The Hong Kong Polytechnic University. She received her PhD from Duke University, has published over 150 papers in leading conferences and journals, and holds more than 50 patents. She has received numerous prestigious awards, including the highest honor of the 2019 World Artificial Intelligence Conference (WAIC) — the Super AI Leader (SAIL) Award, the Second Prize of the 2020 National Science and Technology Progress Award, the First Prize of the Chinese Institute of Electronics Science and Technology Progress Award in 2021, and both the Forbes China Top 50 Women in Science and Technology and the Ministry of Education Science and Technology Progress Award (First Class) in 2022. Since 2023, she has been recognized as an AI 2000 Most Influential Scholar and was named one of the Top 50 Women in AI worldwide by CoinDesk, as well as a WAIC SAIL Top 30 Projects honoree in 2025.

Her professional experience spans leading roles across academia and industry: she served as Head of LLM in the US at ByteDance, AI Scientist and Director at Alibaba Group, Principal Data Scientist at Yahoo! Inc., and Research Staff Member at the IBM T.J. Watson Research Center. She has also held joint adjunct professorships at Zhejiang University and the Shanghai Advanced Research Institute. Notably, she founded the foundation model teams at both Alibaba and ByteDance, establishing herself as a pioneer in the field of Generative AI.

Abstract

The significant demand for computing resources greatly restricts AI development, confining participation in the pretraining stages of Large Language Models (LLMs) to a few researchers. We are currently developing an efficient continual pretraining infrastructure designed to produce high-quality small language models (SLM) and multimodal SLM, with a particular emphasis on enhancing reasoning capabilities. We also introduces a novel system that integrates hundreds of domain-specific models to construct a foundational model for Artificial General Intelligence (AGI) with minimal computational demand. By employing smaller, efficient models, leveraging top-ranked models across diverse domains through a robust ranking algorithm, and continuously optimizing the evolving foundation model, this approach seeks to democratize AI development. It shifts from the traditional 'model over data' or centralized LLM method to a 'model over models' or decentralized LLM strategy, aiming to reduce reliance on extensive computational resources and promote broader innovation and inclusivity in AI. We propose that unconstrained model merging could serve as a foundation for decentralized LLMs, marking a notable progression from the existing centralized LLM framework. This evolution could enhance wider participation and stimulate additional advancement in the field of artificial intelligence, effectively addressing the constraints posed by centralized models.

Speaker Profile

Morning Session | A Global-Oriented Standards Framework for the Low-Altitudes Economy

Prof. Chitin HON

Department of Engineering and Science, Faculty of Innovation Engineering
Macau University of Science and Technology

Biography

Hon Chi Tin, Professor and Doctoral Supervisor at the Macau University of Science and Technology. He is a member of the Macau District of the Guangdong Provincial Committee of the CPPCC, a selected expert of the National Major Talent Project, and a Leading Talent in Science and Technology Innovation under the "Pearl River Talent Plan." He currently serves as Chairman of the IEEE Low-Altitude Economy and Smart Applications Standards Committee, Convener of the Low-Altitude Economy Standards Committee of the Guangdong-Hong Kong-Macao Greater Bay Area Standard Innovation Alliance, Chairman of the Macau Association for Low-Altitude Airspace Economy, Honorary President of the Guangdong-Macao In-Depth Cooperation Zone Low-Altitude Economy Association, and Network Scientist at the Guangzhou National Laboratory.

In the past five years, he has led over 30 projects, including the National Key R&D Program of the Ministry of Science and Technology, the Joint Special Project of the National Natural Science Foundation of China (NSFC) and the Macau Science and Technology Development Fund (FDCT), as well as other FDCT projects. He conducts systematic research focused on the low-altitude economy and the integration of medicine and engineering. He has published over 70 SCIE-indexed papers and holds over 300 intellectual property rights, including invention patents. Additionally, he has participated in the development of 13 IEEE international standards; notably, he led the formulation of P3776 Standard for Basic Terminology for Low-Altitude Economy (Businesses and Services Conducted in the Airspace Below 1000 m Above Ground) and P3838 Standard for Unmanned Aerial Vehicles (UAV) Identification and Record Management System in Low-Altitude Economy, continuously promoting the standardization and international development of these fields.

Speaker Profile

Morning Session| Panel Discussion |Facilitator

Ir Prof. Kim-fung TSANG

Fellow IEEE, Fellow HKIE, Fellow CIEHK, FAAIA
Council Member, HKIE
Past Chairman, HKIE Electronics Division

Biography

Kim Fung TSANG is globally recognized for his expertise in AIoT (Artificial Intelligence of Things) and smart technology applications. KF has received numerous accolades, including the IoT Heroes Award (2016) and the IEEE Product Safety Engineering Society Outstanding Achievement Award (2021) .

As a pioneer in IoT standards development, TSANG architected the IEEE Standard 2668 Maturity Index for Internet-of-Things (IDex) —a signatory framework approved by IEEE in December 2022. Since its establishment, he has actively promoted IDex adoption across industries. His vision is to establish and proliferate IoT Best Practices , ensuring global benchmarks are met.

KF leads several influential IEEE standards workgroups, including IEEE 2668 Maturity Index for IoT; IEEE P1451.5.5 LoRa Smart Sensor Interface; IEEE P1451.5.6 SigFox Smart Sensor Interface; IEEE P1451.5.10 NB IoT Smart Sensor Interface; IEEE1932.1 standard for License/Unlicensed Spectrum Interoperability in Wireless Mobile Networks; Industrial Wireless Guidelines for NIST, U.S. Department of Commerce, USA.

Complementing his technical achievements, KF boasts an impressive editorial portfolio, including Editor-in-Chief , IEEE Transactions on Consumer Electronics (TCE) (2022–2025); Associate Editor , IEEE Transactions on Industrial Informatics; Associate Editor, IEEE Transactions on Industrial Electronics; Associate Editor , IEEE Industrial Electronics Magazine; Editor (Electrical), HKIE Transactions (2018–2024)

Kim Fung's leadership in research, standards development, and editorial work exemplifies his ability to bridge academic innovation with real-world applications. His contributions continue to shape the future of IoT development, positioning smart city development for sustained growth and excellence.

Speaker Profile

Morning Session| Panel Discussion |Panelist

Hon Duncan CHIU, MH

Legislative Councillor

Biography

Duncan has been the driving force behind Hong Kong's innovation and technology (I&T) development since the early 2000s. He is a prominent advocate of I&T policies, a seasoned entrepreneur and investor, and is often regarded as the leading figure in the local I&T industry.

In 2022, Duncan was first elected to the 7th term on the Legislative Council, and was successfully re-elected in 2026. In addition to his service to the industry, he regularly proposes initiatives in the areas of I&T, finance, the economy and public health. They are recognized by the relevant authorities as contributory and specialist input in the formulation of policies and improvements to governance. Currently, he is Deputy Leader of AI Efficacy Enhancement Team.

Duncan is a key contributor to the upstream, midstream and downstream sectors of Hong Kong's I&T ecosystem. In the upstream sector, he serves as Chairman of the Advisory Committee of the Department of Systems Engineering and Engineering Management of the Chinese University of Hong Kong. In the midstream sector, he is Chairman of Steering Committee of the Research, Academic and Industry Sectors One-plus Scheme (RAISe+). In the downstream sector, he is Chairman of HKTDC Information & Communications Technology (ICT) Services Advisory Committee.

In his capacity as President of the Hong Kong Information Technology Joint Council, he plays a pivotal role in fostering cohesion within the I&T industry. Besides these efforts, he is a professional investor with a track record of participating in and investing in hundreds of I&T projects. He often shares his insights at forums and serves as a mentor to numerous young entrepreneurs.

Speaker Profile

Afternoon Session| Afternoon Keynote Speech|Co-Creating Smart Mobility: Hong Kong's Exponential AI Journey

Ir Vincent CHOW, JP

Acting Director
Electrical and Mechanical Services Department
Hong Kong SAR Government

Biography

Ir Vincent CHOW, JP is the Deputy Director of the Electrical & Mechanical Services Department (EMSD), overseeing the Electrical and Mechanical Services Trading Fund. Leading a workforce of approximately 5,000 employees, he manages project execution, operations, and maintenance services for more than 70 government departments, covering around one million electrical and mechanical (E&M) facilities with an annual business volume of approximately HK$10 billion.

As an innovation facilitator for government departments, Ir CHOW spearheads initiatives to enhance technology adoption, including the establishment of the E&M Inno-Portal. Under his leadership, EMSD actively promotes the integration of innovation and technology (I&T) across various sectors, such as the Multi-trade Integrated Mechanical, Electrical, and Plumbing (MiMEP) method, Open Building Information Modeling (openBIM), Artificial Intelligence (AI), Robotics, and Low-Altitude Economy (LAE) applications.

Ir CHOW is a Fellow Member of the Hong Kong Institution of Engineers (HKIE), the Institution of Mechanical Engineers (IMechE), and the Institution of Gas Engineers & Managers (IGEM). He also serves as the Chairman of both the HKIE Gas Discipline Advisory Panel and the IGEM's Far East District Section.

Speaker Profile

Afternoon Session| Afternoon Keynote Speech|Co-Creating Smart Mobility: Hong Kong's Exponential AI Journey

Summary of Presentation

We are at a pivotal turning point in the engineering landscape. As we transition from simple digitalization to the era of Agentic AI, the focus of our industry has shifted from what AI can generate to how it can solve complex, real-time challenges. This exponential evolution is redefining global mobility, moving us toward a future of intelligent, autonomous, and predictive infrastructure.

Aligned with the National "AI+" action strategy, Hong Kong is committed to integrating intelligence into every sector to drive high-quality, innovation-led growth. As the "engine room" for these advancements, the Electrical and Mechanical Services Department (EMSD) is actively bridging high-level strategy with real-world infrastructure solutions. By moving from concept to deployment, we are ensuring that the "AI+" mandate translates into tangible improvements in city efficiency, safety, and connectivity.

Our success relies on a robust ecosystem of collaboration—the "Four Pillars" of Government, Academia, Industry, and Research Institutes. Through platforms like the E&M InnoPortal and the E&M AI Lab, we are fostering innovation that transcends boundaries. Whether it is through award-winning robotics for airfield maintenance, automated infrastructure measurement, or AI-driven boundary crossing management, our work demonstrates that the future of mobility requires seamless synchronization across the Greater Bay Area.

The vision of a fully integrated, intelligent future is within our grasp. It will not be realized by one engineer or one policy alone, but by our collective will to co-create. I invite all industry partners to unite in this mission; let us leverage our shared talent and national directive to ensure Hong Kong not only keeps pace with the global digital shift but leads it.

Speaker Profile

Afternoon Session| From Data to Movement: AI for the Next Generation of Smart Micro-Mobility

Mr. Steve NG

General Manager and Chief Research Officer
LocoBike

Biography

Steve Ng is the General Manager and Chief Research Officer at LocoBike, a leading smart mobility platform in Hong Kong. With over 18 years of experience as a CEO, founder, and product & engineering lead, Steve has played pivotal roles in shaping the technology and e-commerce landscape across multiple renowned startups, including HKTV, Offbeat Technology, PwC New Venture and Yahoo. He is recognized for his passion for technology, artificial intelligence, user experience, and business development, driving innovation and digital transformation in every venture he leads.

Throughout his career, Steve has excelled at building and scaling teams, launching disruptive products, and fostering cross-functional collaboration. At HKTV, he contributed to the development of Hong Kong's largest online shopping platform, while at Offbeat Technology, he helped break down barriers in cross-border e-commerce. Steve's leadership at LocoBike is marked by a commitment to leveraging AI and smart technology to improve urban mobility for over 750k users.

Guided by a personal vision to make a better world, Steve continues to champion impactful solutions that blend technology with social good. His work reflects a dedication to creating meaningful change, inspiring teams, and enhancing everyday life through innovation.

Presentation Summary

AI transforms raw mobility data into practical strategies for the next generation of smart micro-mobility systems. Insights from our recent Golden Distance study and rebalancing framework show how data-driven methods can improve service design, demand understanding, and operational decision-making in shared-bike networks.

Speaker Profile

Afternoon Session| From Data to Movement: AI for the Next Generation of Smart Micro-Mobility

The Golden Distance concept captures the maximum walking distance users are realistically willing to tolerate when accessing a bicycle. By grounding service coverage in observed user behavior rather than fixed assumptions, it identifies more meaningful service zones and reveals latent demand that may not be visible from completed trips alone. Building on this behavioral foundation, the clustering and demand-prediction framework applies spatial analysis and machine learning to represent district-level travel patterns and forecast future usage.

These insights also strengthen rebalancing decisions. Rather than treating bicycle redistribution as a purely operational task, the framework connects demand prediction with location-specific service gaps, enabling more timely and efficient bicycle allocation across districts. Together, these approaches bridge the gap between data and movement, improving accessibility, reducing inefficiency, and supporting more adaptive, user-centered micro-mobility systems for increasingly dynamic urban environments.

Speaker Profile

Afternoon Session| AI-Powered Mobile Traffic Control and Surveillance System for Enhancing Road Safety in Hong Kong

Mr. Eric LEUNG

IT Project Manager
Autotoll Limited

Biography

Eric Leung is a project management professional recognized for combining strategic leadership with a strong commitment to innovation, operational excellence, and industry collaboration. With expertise in both Agile and Waterfall methodologies, he brings a disciplined yet adaptable approach to leading technology-driven initiatives that deliver measurable business value and support long-term organizational priorities. His professional approach is grounded in clarity, accountability, and continuous improvement, enabling teams and stakeholders to work effectively toward shared goals.

As a PMP and PMI-ACP certified professional, and holder of the SUA Advanced Rating, Eric is known for aligning project execution with broader business objectives while fostering strong stakeholder engagement and cross-functional collaboration. He is valued for his ability to navigate complexity, maintain delivery focus, and guide initiatives with a balanced perspective that supports both strategic vision and practical implementation. His leadership style reflects a commitment to excellence, resilience, and meaningful outcomes.

Beyond his professional responsibilities, Eric is actively involved in the wider professional community. He serves as a Council Member of ITS-HK and is a Corporate Member of GBA LAEA, demonstrating his dedication to industry development, knowledge sharing, and regional collaboration. Through both his professional work and voluntary contributions, he continues to support the advancement of transformative technologies and stronger business practices.

Speaker Profile

Afternoon Session| AI-Powered Mobile Traffic Control and Surveillance System for Enhancing Road Safety in Hong Kong

Presentation Summary

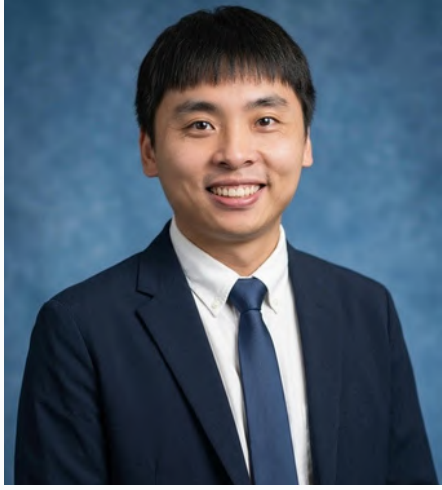
Mobile Traffic Control and Surveillance System (Mobile TCSS) is a drone-enabled highway traffic management solution that delivers rapid, flexible traffic control and real-time monitoring without relying on fixed gantries or permanent roadside installations. It uses unmanned aerial vehicles equipped with three main payload types: (1) LED display panels to function as Variable Message Signs (VMS) and Variable Speed Limit Signs (VSLS), (2) laser beam projectors to project lane guidance, merge arrows, or warning symbols directly onto the road surface, and (3) high-intensity lighting, including tethered lighting for extended night operations, to illuminate work zones and improve driver awareness.

Mobile TCSS is designed for dynamic road situations such as accidents, urgent lane closures, temporary hazards, and road maintenance. Drones can be launched from pre-selected bases or maintenance vehicles and positioned at optimal upstream distances to give drivers earlier, clearer instructions—supporting smoother speed reduction, safer lane changes, and improved traffic flow through incident areas. By providing early aerial warnings and guidance, Mobile TCSS helps reduce driver confusion and the likelihood of secondary collisions.

The system also improves safety for road workers, maintenance teams, and enforcement personnel by reducing the need for manual placement of temporary signs and lighting in high-speed live traffic. Trials can be implemented in stages from Visual Line of Sight (VLOS) to Extended Visual Line of Sight (EVLOS) and ultimately Beyond Visual Line of Sight (BVLOS) operations, supported by defined procedures, safety controls, and integration with traffic control centre workflows. Overall, Mobile TCSS offers a scalable, responsive approach to modern traffic control that enhances safety, operational efficiency, and network resilience, while reducing dependence on costly fixed infrastructure.

Speaker Profile

Afternoon Session| Hikvision Guanlan AI Large Model: Breaking the Isolation of Vision and Language, Facilitating Digital Transformation in Thousands of Industries



Mr. House ZHU

Business Development Manager
Hikvision Technology Pte. Ltd.

Biography

House Zhu is a seasoned Business Development Manager at Hikvision Hong Kong & Macau, recognized for his sharp commercial vision and robust technical background. With a focus on driving enterprise growth through innovative collaboration models, House is passionate about unlocking the commercial potential of emerging technologies and accelerating industrial digital transformation through win-win partnerships.

An expert at building cooperative ecosystems from the ground up, House possesses a keen market intuition that enables him to identify and capture untapped opportunities. He excels at navigating complex market landscapes to deliver strategic results. Currently, House is dedicated to cultivating high-value partnerships and spearheading market expansion initiatives. His core mission remains centered on creating sustainable, dual-value outcomes that empower both his clients and the organization to thrive in an evolving digital era.

House Zhu現任海康威視香港及澳門區業務發展經理，是一位兼具敏銳商業視野與深厚技術背景的資深專業人士。他致力於透過創新的合作模式驅動企業成長，並熱衷於挖掘前沿技術帶來的商業潛能，旨在透過共贏合作推動產業的數字化轉型。

House擅長從零開始構建完善的合作體系，憑藉敏銳的市場嗅覺，他能精準識別並捕捉潛在商機。目前，他正專注於建立高價值的合作夥伴關係與市場擴張，致力於為客戶與公司創造雙贏價值，在不斷發展的數字時代中實現共同繁榮。

Speaker Profile

Afternoon Session| Intelligent New Chapter · Smart Hong Kong — Innovative Applications of AI in Digital Governance and Smart City Development

Dr. Peng WANG

Vice President of R&D and Chief Architect of Huawei's Government Public Service Digitalization BU
Huawei

Biography

Wang Peng, male, Doctor of Engineering, graduated from Beijing Institute of Technology.
Serving as Vice President of R&D and Chief Architect of Huawei's Government Public Service Digitalization BU, responsible for the overall architecture of Huawei's digital transformation solutions for the government sector.
Having rich experience in solution architectures of government fields such as “Public Service", “Smart City" and “Government Office Automation".
Having experience in top-level planning and leading solution design for digital transformation projects in multiple first-tier cities in China, including Beijing, Shanghai, Guangzhou and Shenzhen, as well as large overseas cities.
Currently, holding the following positions:

- **Member of the Expert Committee of the Smart City Working Group under the National Information Technology Standardization Technical Committee (SAC/TC28)**
- **Member of the National Technical Committee for Data Standardization (SAC/TC429)**
- **Member of the Expert Committee of the Artificial Intelligence Industry Development Alliance of the China Academy of Information and Communications Technology (CAICT)**
- **Vice Chairman of the Beijing Urban Digital Development Association**
- **Member of the Shenzhen Municipal Professional Standardization Technical Committee**
- **Member of the Strategic Advisory Committee for Smart City and Digital Government Construction of Shenzhen**
- **Member of the "Digital Nanjing" Expert Committee**

Speaker Profile

Afternoon Session | Using Physics-based Models and AI for Virtual Manufacturing of Batteries

Dr. Masoud JABBARI

Assistant Professor and Deputy Director of Postgraduate Research Assistant Professor, School of Mechanical Engineering, University of Leeds (UK)
Visiting Researcher, School of Physics and Engineering, University of York (UK)

Biography

Dr Masoud Jabbari is an Assistant Professor in the School of Mechanical Engineering at the University of Leeds, and a visiting researcher at the School of Physics, and Engineering, at the University of York. He is specialised in computational modelling of advanced materials processing with a particular focus on ceramic materials and battery technologies. His research integrates computational fluid dynamics (CFD), multiphysics simulation, and data-driven approaches to understand and optimise key stages of battery manufacturing (such as slurry mixing, coating & 3D printing, drying, and calendering) across lithium-ion and emerging chemistries. Leading the APMS Research Group, Masoud has been collaborating closely with industry to ensure his modelling work supports scalable and high-performance energy storage solutions.

Abstract

This talk explores the integration of physics-based models with artificial intelligence to enable virtual manufacturing of advanced battery systems. High-fidelity mechanistic models are combined with data-driven AI methods to capture complex, multiscale manufacturing-performance relationships. The hybrid framework enables rapid exploration of process parameters, defect formation, and material variability without extensive physical prototyping. By leveraging surrogate modelling and physics-informed learning, the approach improves predictive accuracy and computational efficiency. The resulting virtual manufacturing platform supports accelerated process optimisation, quality control, and scale-up of next-generation batteries.

Speaker Profile

Afternoon Session| Panel Discussion |Facilitator

Mr. Simon K Y Wong, MH

Chief Executive Officer
Logistics and Supply Chain MultiTech R&D Centre

Biography

Mr. Simon K Y Wong is the Chief Executive Officer of the Logistics and Supply Chain MultiTech R&D Centre (LSCM). LSCM was established in 2006 by the HKSAR Government and charged with the mission to research and develop relevant technical solutions to serve the logistics, construction and eCommerce industries in Hong Kong and the Greater Bay Area.

Mr. Wong has more than 30 years of working experience in the commercial sector. Before joiningn LSCM, Mr. Wong held a number of technology development and management positions in Hong Kong and Taiwan. Mr. Wong worked at the General Electric Company between 1996 and 2004, and he was the President of GE Appliances Asia from 1999 to 2004. Mr. Wong joined Johnson Electric in 2004 as the President of JE Trading Limited. He was highly involved in developing supply chain solutions for customers and exploring new business models. Mr. Wong then joined LSCM as the Chief Executive Officer in 2011.

Mr. Wong holds a master's degree in Electrical Engineering and Computer Science from the University of California, Berkeley, United States.

Speaker Profile

Afternoon Session| Panel Discussion |Panelist

Mr. Karel AU

Chief Executive Officer
Autotoll Limited

Biography

Karel Au is the Chief Executive Officer of Autotoll Limited, where he spearheads the strategic planning, development, implementation, and coordination of information services and technology solutions for clients in government, organizations, and the commercial sector.

With two decades of experience in Information Technology solution development consulting across various industries, Karel possesses a deep understanding of what truly drives innovation and has the expertise to bring these innovations to life. His consulting mindset has played a pivotal role in positioning Autotoll as a leading provider of Smart City solutions to government entities, corporations, and citizens.

Notably, Karel has been instrumental in the successful delivery of key projects, including the implementation of the free-flow tolling system, known as "HKeToll," and the development of the real-time traffic monitoring system for the HKSAR (Hong Kong Special Administrative Region) during his tenure at Autotoll.

Speaker Profile

Afternoon Session| Panel Discussion |Panelist

Mr. Ken CHING

Chairman
LocoBike

Biography

Ken Ching serves as Chairman and CEO of Locobike, where he leads the company's mission to transform urban mobility through innovative shared micro-mobility solutions. Under his stewardship, Locobike has established itself as a pioneer in Hong Kong's sustainable transportation landscape.

With a distinguished career spanning technology and urban development, Ken brings extensive expertise in smart city initiatives and green transportation systems. His visionary leadership has been instrumental in expanding Locobike's footprint across Hong Kong, making cycling more accessible and convenient for thousands of residents daily.

Ken is deeply committed to environmental sustainability and believes that technology-driven solutions are key to addressing urban transportation challenges. His work focuses on integrating intelligent systems with eco-friendly practices to create seamless mobility experiences.

As a strong advocate for engineering innovation, Ken actively collaborates with industry partners, government bodies, and academic institutions to advance Hong Kong's smart city development. He is passionate about mentoring the next generation of engineers who will shape the future of sustainable urban living.

Speaker Profile

Afternoon Session| Panel Discussion |Panelist

Ir Timothy WONG

Senior Engineer
Electrical and Mechanical Services Department
Hong Kong SAR Government

Biography

Ir. Wong's journey in artificial intelligence began in 1996, when he completed his final year project focusing on AI neural networks. This early academic foundation laid the groundwork for his extensive professional career. Since 2018, he has successfully managed and delivered more than 20 significant AI projects for various government departments. His expertise spans critical AI domains including machine learning, advanced image and video analytics, and Large Language Modelling (LLM). His innovative contributions have been internationally recognized, earning him three prestigious Geneva Invention Awards, comprising two Gold and one Silver medals, which highlight the exceptional quality and impact of his technical solutions.

In 2024, Ir. Wong led his technical team in establishing the EMSD's first dedicated AI server infrastructure and LLM services for corporate applications. This initiative notably integrated Chinese Mainland XinChuang (信創) technologies to ensure sovereign and secure government information processing. This infrastructure was specifically designed to meet the growing AI application demands within the EMSD while adhering to the highest standards of data security and operational integrity.

in 2026, Ir. Wong spearheaded the adoption of XinChuang AI models and advanced AI agent technologies to rapidly deploy tailor-made AI assistants for EMSD colleagues. This initiative directly addressed in-house operational needs, enhancing daily workflows and productivity. Demonstrating remarkable efficiency, seven specialized AI assistants were successfully developed and deployed across the department within just five months, marking a new era of intelligent, secure, and efficient public service delivery.

Speaker Profile

Afternoon Session| Closing Speech

Ir Andy LAM

OC Chairman, HKES 2026
Deputy Chairman
HKIE Electronics Division

Distinguished Guests, Ladies and Gentlemen,

As we conclude this year's Hong Kong Electronics Symposium (HKES2026), I extend my heartfelt thank you to all of you, familiar faces and new friends here today. This Symposium marks our 14th consecutive anniversary since its inception in 2013. Under the theme "*The Next Generation of Artificial Intelligence (AI): Powering Mobility and Innovation,*" we have explored opportunities across AI, smart mobility, the low altitude economy, and sustainable development.

Today's programme featured a rich exchange among the Hong Kong SAR Government, industries and academia from Mainland China, Macau, local and overseas, offering a comprehensive view of how technological innovation can shape Hong Kong's future. We discussed AI standardization, which is the key to safety, interoperability, and trust, and also explored how digital intelligence enables cleaner transportation, smarter infrastructure, and a more resilient urban environment.

Our deepest thank you are extended to our honourable 12 sponsors, over 25 supporting organisations, and to our distinguished Steering Committee Members. Your unwavering support has been essential in making this event a success.

Before we close, I wish to express our sincere appreciation to everyone who made this symposium possible.

We are especially grateful to Ir Prof. Frank Chan from the Hong Kong Institution of Engineers (HKIE), for delivering the opening speech, and to the keynote speakers Mr. Daniel Cheung from Digital Policy Office and Ir Vincent Chow from Electrical and Mechanical Services Department in the morning and afternoon sessions, and to all esteemed speakers from local and overseas regions who showed us the true value of today's discussions.

Speaker Profile

Afternoon Session| Closing Speech

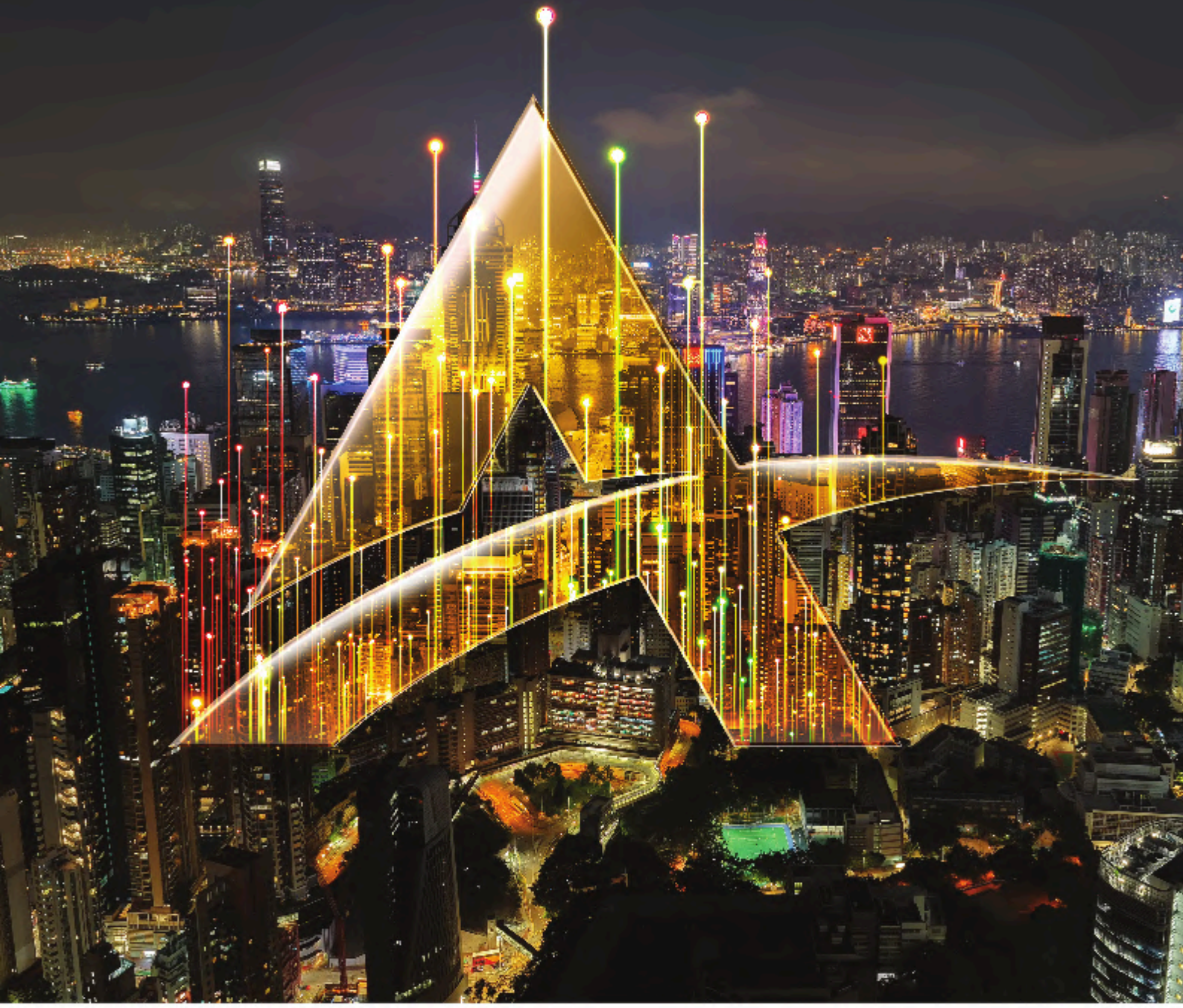
A special thank you to Prof. Cairong Zou for giving us the address from the Guang Dong Institute of Electronics in Mainland China, to Prof. Chitin Hon from the Macau University of Science and Technology in Macau, and to Dr. Masoud Jabbari from the University of Leeds in the UK. Thank you for your continued support and collaboration with the HKIE. We are also honoured to have two Legislative Councillors, Hon Duncan Chiu and Ir Prof. Hon William Wong, along with the facilitators, Ir Prof. KF Tsang and Mr. Simon Wong, and all panellists for joining our panel discussions, which enriched the dialogue on AI standards, innovation, technology development and applications.

A special acknowledgment is extended to our Organizing team members and all helpers. Your tireless dedication and professional work have been crucial in making this event possible and successful.

Finally, I would like to thank you all of you, nearly 300 colleagues here today, for attending this symposium. Your participation and engagement have been vital to the success of this event.

Last but not least, thank you all for your participation, and I look forward to seeing you all again at next year's Symposium, HKES2027.

Accelerating into a SMART Future



Autotoll
Smart Solutions

ABOUT AUTOTOLL

As the pioneer of developing smart solutions in the transport sector since 1998, Autotoll has branched out it
services to all ways of Smart City technology toda
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for the city. With over 25 years of expe
Transport System & Smart City
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Mobile Traffic Control & Surveillance System

Autotoll
Smart Solutions

Mobile Traffic Control & Surveillance System (Mobile TCSS) is a drone-based traffic control system that delivers real-time signs, warnings, and lighting to support safer road management.

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AS BRIGHT AS DAYLIGHT

Dahua WizColor X technology greatly boosts light sensitivity, delivering richer color layers and fine details at night. It also enables precise capturing and recognition of moving targets, significantly reducing motion blur.

UltraSight Lens

Larger Pixel Size Sensor

AI-ISP 2.0

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CONSTANT EVOLUTION FOR THE INTELLIGENT AIOT FUTURE

XINGHAN VISION MODELS

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- Perimeter Protection
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- Scene Adaptive
- WizSeek
- Text-Defined Alarms

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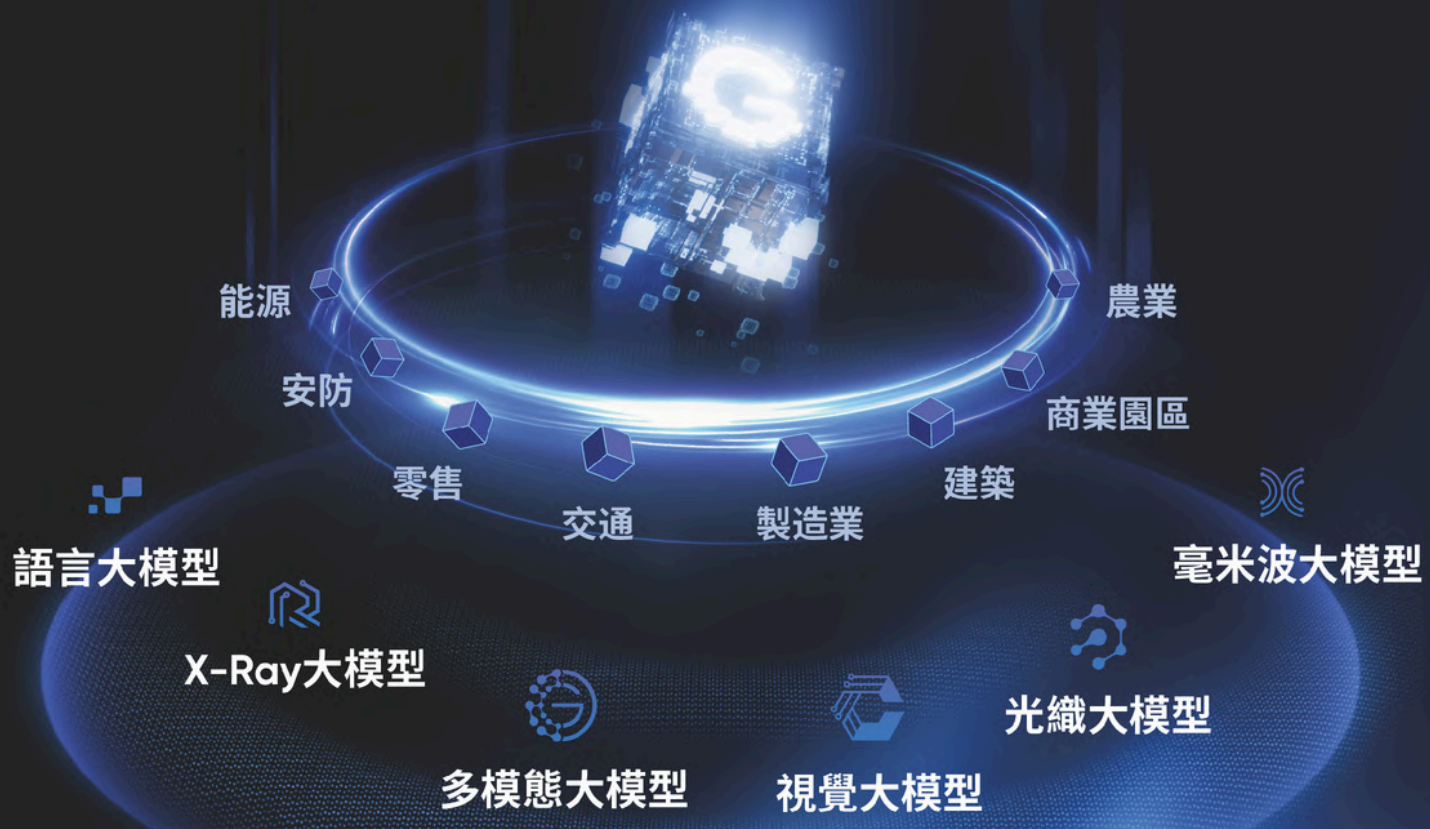
Guanlan “觀水有術,必觀其瀾。”



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Atlas 850E SuperPoD Server

Available in Q4 2026

Atlas 850E SuperPoD server is designed for model fine-tuning, RL post-training, and DC inference across diverse industries. It offers a high-performance, low-latency AI training and inference platform that is easily deployable in air-cooled equipment rooms.

Ultra-high performance

8 PFLOPS FP8

16 PFLOPS FP4

Air cooling

Designed for air-cooled equipment rooms

No airflow interference across NPUs

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UB protocol

Scale-up to **1,024** NPUs

Product Specifications

NPUs	8
CPUs	2
Memory	Up to 1,152 GB
Computing power	Up to 8 PFLOPS FP8 and 16 PFLOPS FP4
Heat dissipation	Air cooling
Power consumption	~ 15 kW
Weight	251 kg
Dimensions	618.8 mm × 447 mm × 920 mm

** Subject to the actual configuration*

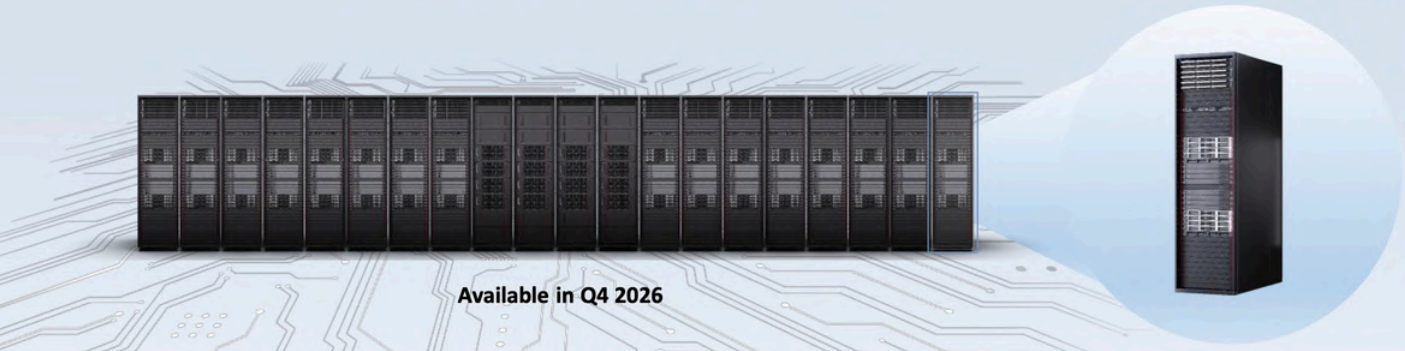
Application Scenarios

Enterprise AI computing center

Urban AI computing center

University computing center

Atlas 950 SuperPoD



Available in Q4 2026

Atlas 950 SuperPoD is purpose-built for large-scale AI computing centers. By harnessing high-speed UnifiedBus interconnect, it offers the industry's largest liquid-cooled AI SuperPoD solution, enabling stable and efficient pre-training, post-training, and inference for ten-trillion-parameter models.

Ultra-high performance

8 EFLOPS FP8

16 EFLOPS FP4

Agile configuration

Flexible scaling from 64 to **8,192** NPUs by cabinet

Lossless optoelectronic interconnect across cabinets

High reliability, easy deployment

Cableless orthogonal architecture

Suitable for liquid-cooled equipment rooms

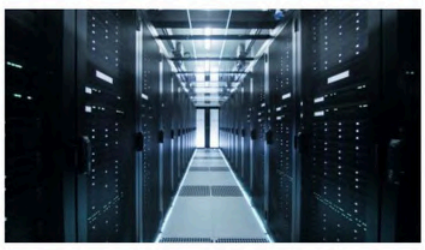
Product Specifications (Single Compute Cabinet)

NPUs	64
CPUs	16
Memory	Up to 9,216 GB
Computing power	Up to 128 PFLOPS FP4 and 64 PFLOPS FP8
Heat dissipation	Liquid cooling
Power consumption	100 kW
Weight	1,700 kg
Dimensions	1,400 mm × 600 mm × 2,250 mm

** Subject to the actual configuration*

Application Scenarios

National AI computing center



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中電一直與香港並肩前行。
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CLP 中 中電 | 125

Power Brighter Tomorrows

From every home we light
to every business we empower,
CLP has fuelled Hong Kong's prosperity.
We power this city,
as we shape a bright and sustainable future together.

CLP 中電 | 125

中國移動
China Mobile

Intelligent Customer Service
AI-Driven Future

Core Capabilities

Intelligent Interaction
AI-powered voice/text chatbots with high-precision Cantonese recognition and fluent bilingual (Chinese/English) conversations.

Full-Process Enablement
Seamless integration of access – service – handover – analysis, providing 24/7 uninterrupted responses.

Operational Efficiency
Automated ticket management, call quality inspection, smart scheduling, and call volume forecasting.

Security & Compliance
Encrypted data storage and transmission, fully compliant with Hong Kong's local data security regulations.

Data Insights
Customer profiling and behavior analysis to support precise business decision-making.

Our Solutions

- Powered by large language models and integrated communication resources, we offer an all-in-one AI customer service solution.
- Our portfolio includes intelligent voice bots, multi-channel text bots, agent collaboration platforms, and operation management platforms. We support both on-premise deployment and cloud hosting, integrating numbering, network, and platform capabilities for rapid deployment and stable, reliable performance.
- From inquiry response and business processing to marketing follow-ups and complaint handling, AI empowers the entire customer service journey, helping you reduce costs, increase efficiency, improve quality, and boost revenue.

Typical Application Scenarios

Financial Institutions:
Customer inquiries, business processing, marketing follow-ups, complaint handling.

Retail & F&B:
Order inquiries, after-sales support, member (or "member engagement/care"), event notifications.

SMEs:
Daily inquiries, automated call distribution, after-hours service, service standardization.

Government & Enterprise:
Hotline reception, information queries, satisfaction improvement, bulk outbound calling.

Why Choose CMHK

Communication Resource Advantage:
Dedicated hotline numbers + stable network for a one-stop implementation.

End-to-End Service:
Professional support throughout the entire cycle of construction, training, and maintenance.

Security & Compliance Guarantee:
Adheres to Hong Kong regulations, ensuring robust data security and privacy protection.

Hong Kong Localized Adaptation:
Trained on vast Cantonese language datasets, ensuring accurate recognition and contextual relevance.

Proven Track Record:
Experience serving millions of users, with quantifiable results in cost reduction and efficiency improvement.

Core Functional Modules

Intelligent Interaction Layer	AI Voice Bot (ASR+LLM+RAG+TTS)	AI Text Bot (Multi-channel Access)
Data Insights Layer	Customer Profiling	Behavior Analysis / Marketing Journey Tracking
Operations Management Layer	Ticket Automation	Call Quality Inspection / Agent Scheduling / Call Volume Forecasting
Basic Support Layer	Communication Network (SIP/5G/Internet)	Hotline (10086/12580 etc) / Agent Platform

中國移動
China Mobile

Low-Altitude Intelligence Empowering the Future

Core Capabilities

China Mobile Hong Kong leverages its strong capabilities in four key domains—communication, sensing, navigation, and supervision—to build a low-altitude economy capability platform for future urban airspace. It provides a safe, monitorable, dispatchable, operable, and scalable low-altitude intelligent network and operational service system.

Our Integrated Solutions

We tackle the core challenges of the low-altitude economy — **"invisible, unconnected, imprecise, unmanaged flights"** — with a proven suite of technologies:

Unified Low -Altitude Management Platform

- Airspace modelling, route planning & digital geofencing.
- Streamlined flight approval & BVLOS (Beyond Visual Line of Sight) remote control.
- Full-lifecycle traceability for drones, pilots, and operations.
- Enables multi-agency collaboration and supervision.

Integrated Sensing & Communication (ISAC) Network

- Fuses 5G-A, radar, electro-optical, and radio detection.
- Identifies "low-slow-small" (LSS) aerial targets in ⩽5 seconds.
- Reduce false alarm rate and effectively improve detection accuracy.
- Ideal for airports, borders, urban areas, and critical infrastructure security.

BeiDou High-Precision Positioning & 3D Mapping

- Achieves dynamic positioning accuracy of 3-5 cm.
- Automated route safety assessment.
- Detailed 3D urban airspace modelling.
- Increases low-altitude flight capacity by 4 times.

Hubble-1 5G-Enabled UAV Terminal

- upports 5G (SA/NSA) and 4G networks
- Enables HD video streaming in RTMP/RTSP format
- Real-time transmission of UAV telemetry and status data to the platform
- Provides QoS mechanisms to ensure reliable and prioritized data transmission
- End-to-end encryption using SE-chip-based hardware security

Typical Application Scenarios

Drone Logistics: Utilizing drones for cross-regional delivery improves transportation efficiency and reduces time by over **50%**.

Unified Aerial Inspection: Multi-agency patrols boost efficiency by **4x** and cut costs by **50%**.

Airspace Security: Detect unauthorized drones, trigger intrusion alerts, and ensure flight path security with over **95%** monitoring accuracy.

Why Choose CMHK?

Unmatched Connectivity: Hong Kong's leading 5G network, covering **99.54%** of the territory.

Proven Innovation: Successfully deployed **Hong Kong's first mmWave ISAC base station**.

Precision Navigation: Full coverage of **RTK high-precision positioning network** across Hong Kong.

Trusted Partner: An active participant in **the Hong Kong Government's pioneering Low-Altitude Economy Regulatory Sandbox**.

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港燈應用程式

源源動力

推動香港永續發展

百多年來，港燈一直以世界級的供電可靠度，支持香港的發展。

為達至香港長遠的能源需求，我們將可持續發展的理念融入業務中，並與持份者保持緊密聯繫，創造共享價值。

展望將來，我們將繼續提供安全、可靠、可負擔及可持續發展的供電服務，推動香港成為碳中和的智慧城市。

SIEMENS

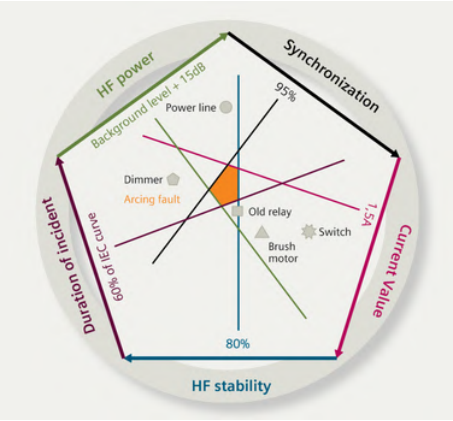
World's Smallest **Arc Fault Detection Device** at 1MW

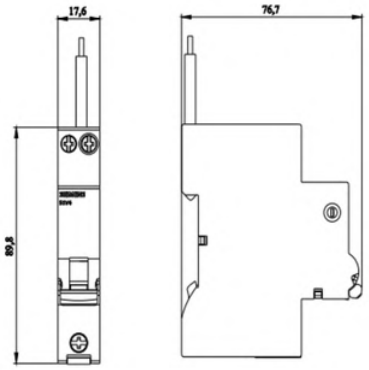
Compact, preventive and proven for maximized space on the distribution board.

Type	: AFDD+MCB, AFDD+RCBO
Standard	: IEC / EN62606
Number of poles	: 1P+N (1MW)
Tripping characteristics	: B, C
RCD type	: Type A
Rated current I_n	: 6A ~ 40A

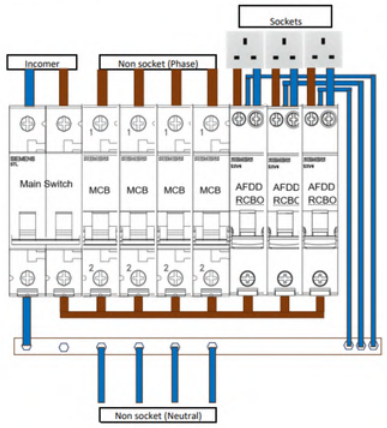
Contact us

SIEMENS





One Module Width (MW)
Size: 17.6 x 89.8 x 76.7 mm



AFDD at nal circuit

The AFDDs are based on SIEMENS SIARC technology

The AFDDs are based on SIEMENS SIARC technology. This detection methodology developed and patented by Siemens for detecting parallel and serial arcing faults in electrical installations is designed to constantly measure the intensity and duration of episodes of high-frequency noise associated with the voltage and current and the gaps between them.

1. High Frequency power
(is this +15db higher than recorded background level).
2. Synchronization (is this greater than 95%).
3. Current Value of the arc (is this greater than 1.5 Amps).
4. High Frequency stability (is this greater than 80% stable).
5. Duration of the arc incident (is this greater than 60% of the IEC curve).

HK EMSD COP2025 code 6B1 (d):

Arc fault detection devices (AFDDs) complying with IEC 62606 or equivalent shall be provided for single phase nal circuits supplying socket outlets with rating not exceeding 32A, as a means of providing additional protection against re caused by arc faults in **l circuits**. The AFDD shall be placed at the origin of the circuit, if used.

HK EMSD COP2025 code 6B1 (e):

AFDDs include:
1. A single device having opening means able to open the protected circuit in specied conditions.
2. A single device with an integrated protective device.
3. A separate unit assembled with a declared protective device.

Implementation of AFDDs

1. For new installations or any mo cation involving a distribution board on or after 1 January 2027, AFDDs shall be provided for socket outlet circuits in construction and demolition site o ces.
2. For new installations or any mo cation involving a distribution board on or after 1 January 2028, AFDDs shall be provided for nal circuits of EV charging facilities in Mode 1, Mode 2 and Mode 3 charging not exceeding 32A single phase (with rated power up to 7kW approximately).
3. For new installations or any mo cation involving a distribution board on or after 1 January 2029, AFDDs shall be provided for socket outlet circuits in the following premises:

- A residential at, hotel, guest house, student accommodation and care home.
- Premises for the manufacturing or storing of readily combustible substances or substances liable to spontaneous combustion.
- Premises where combustible materials are used as the main construction materials (e.g. wooden buildings).
- Premises with endangering or irreplaceable goods.

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Smart cooling solutions reduce energy use, lower emissions, and improve comfort in urban environments.

eMobility
Smart charging infrastructure powers clean transportation and enables efficient and sustainable urban mobility.

Battery Energy Storage System
Battery systems store energy for on-demand use and lower carbon emissions.

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