



AEM Holdings Ltd
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For Immediate Release

AEM clinches the Analytics - Semiconductor Award in the Singapore Business Review Technology Excellence Awards 2020

- AEM’s “cutting-edge, advanced chip testing solutions for the AI and 5G era” project won the Analytics - Semiconductor award
- This achievement is a testament to AEM’s vision and innovation that contributes to establishing a leadership position in cost-effectively testing increasingly complex AI and 5G chips
- Through persistent and consistent efforts, AEM’s handling and testing systems today set the standards for the automation in high mix/high-volume manufacturing environments

Singapore, 8 June 2020 – AEM Holdings Ltd (“AEM” or “the Company”), a global leader offering application specific intelligent system test and handling solutions for semiconductor and electronics companies serving advanced computing, 5G, and AI markets, entered the list of Singapore Business Review’s Technology Excellence Awards 2020. The list was published on 8 June, 2020. This also marks the first time AEM won two consecutive SBR awards (winner of Singapore Business Review Listed Companies Award 2019 in the electronic manufacturing category).

According to Singapore Business Review¹, the SBR Technology Excellence Awards list recognizes Singapore-based companies that made exceptional contributions in pursuit of technological innovation. It honors outstanding companies in Singapore that developed the most

¹ <https://sbr.com.sg/event/sbr-technology-excellence-awards-2020>



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groundbreaking, innovative, and unique IT initiatives and solutions that helped enhance its business. Candidates were screened for uniqueness and innovation, effectiveness and impact, and dynamism by a panel consisting of Daryl Pereira, Head of Cyber at KPMG; Cheang Wai Keat, Head of Advisory Services in Singapore and ASEAN Technology Consulting Leader at Ernst & Young; Chin Chee Choon, Advisory Leader and Assurance Director at Nexia TS; Rizwi Wun, Partner, Acting Head of Intellectual Property and Technology Practice Group at RHTLaw Asia; Carolyn Chin-Parry, Managing Director and Digital Accelerator Leader at PwC. The list “showcases the agility of Singapore’s businesses in driving flexible and cutting-edge solutions to grow and expand”.

Mr. Loke Wai San, AEM’s Executive Chairman commented, *“We are pleased to receive the SBR Technology Excellence Award. This recognition validated our drive to innovate and develop effective, affordable and uniquely customized test handler solutions to create value for our customers and shareholders in this era of 5G, AI and big data.”*

As the semiconductor industry evolves alongside the rapid development of 5G, AI, and big data, chip testing is becoming more complex, with a growing need to integrate multiple chips to extend functionality and performance. AEM’s years of dedicated work to lay the foundation to build unique back-end handling and test systems for the semiconductor industry in a cost-effective manner is paying off.

In 2013, AEM started developing its next-generation chip testing equipment for one of the world’s top semiconductor companies. The product consolidates all three stages of testing into one single-modular machine capable of testing multiple chip types in heterogeneous environments across 30 test sites, thereby enabling AEM’s customer to dramatically reduce its cost-of-test while increasing test coverage. The successful introduction and ramp of AEM’s new solutions saw revenue surging from S\$70.1 million in 2016 to S\$262.3 million in 2018. As its major



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customer ramped up the production of a new generation of chips and stepped up order placement to AEM in 2019, AEM's revenue for 2019 jumped 23.2% year-on-year to S\$323.1 million to achieve a record net profit of S\$52.8 million for the year.

“Traditionally, semiconductor chips are required to undergo a series of tests under an automated test equipment (ATE) framework” said Mr. Loke. “The cost-of-test is typically high using traditional ATE and as mission-critical chips become increasingly complex for the 5G, AI and big data centric applications, the requirement on testing efficiency and accuracy has become more rigorous, and thus the need for a new paradigm for integrating back-end test to reduce downtime and increase throughput.”

In response to the industry-side structural need for affordable chip testing solutions, AEM has also launched its AMPS (Asynchronous Modular Parallel Smart solution platform) in early 2018. This in-house test-handling solution operates on a similar modular and massively parallel test framework, and has advanced active thermal control and intelligent vision that could be customized for each customer's specific needs, making it applicable to a broad range of chipmakers and third-party testing companies.

“With 5G and AI applications spurring greater demand for complex chip integration and mission-critical performance, AEM's sophisticated system level test solutions will continue to help our customers manage test costs while delivering higher levels of test assurance” said Mr. Loke.

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About AEM Holdings Ltd

AEM Holdings Ltd is listed on the main board of the Singapore Exchange (Reuters: AEM.SI; Bloomberg: AEM SP).

AEM Holdings Ltd (“AEM”), a global leader offering application specific-intelligent system test and handling solutions for semiconductor and electronics companies serving advanced computing, 5G, and AI markets.

AEM takes pride in providing innovative, engineering-focused solutions and developing strong partnerships with customers and associates to cater to their manufacturing needs through our global engineering service support



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network and innovative people. Currently, AEM has 4 manufacturing plants located in Singapore, Malaysia (Penang), China (Suzhou) and Finland (Lieto). Through our network of sales offices, associates and distributors, we have a global market presence spanning Asia, Europe and the United States.

Issued for and on behalf of AEM Holdings Ltd

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