

Introduction to AAC MEMS

AAC Technologies ("AAC") is a major supplier of global MEMS sensor and RF products. The company's MEMS business unit takes charge of R&D, manufacturing and sales of microphones, integrated sensors, RF and inertia-related products.



Microphone Shipments In Top 3 Globally



Total Shipment of AAC MEMS Chip

430,000,000+



100+ Ph.D and master

800+ Patents

Production bases

18,100M[°]

Plant area

 $145M_{/month}$

Manufacturing

Comprehensive production capacity ISO 5 and ISO 6

cleanrooms



MEMS MICROPHONE & INTEGRATED SENSOR

AAC boasts the IPs and key technologies of MEMS chip design, wafer manufacturing, packaging, and testing. We are actively designing and developing ASIC chip. Our microphone technology targets next-generation products and iterates in the direction of smaller size, higher performance, and lower power consumption. Moreover, we work on optimizing advanced programming design to expedite the use of MEMS integrated sensor in the new use cases like keyword spotting and user voice recognition.

First-generation 56dBA top port microphone debuted 2010

· 66dBA high SNR microphone · "GROM" small-size microphone 69dBA ultra-high SNR digital microphone

2005

. MEMS microphone

8

R&D centres

sing: Shenzhen, Wuhan, Hong Kong, Taipei, Singapore, Edinbur RF: Nanjing, Irvine

Developed and massivelu roduced first domestic

2017 successfully developed

64dBA bottom port microphone

2018

2019

2020

2021 ->>

· 68dBA ultra-high SNR microphone · 70dBA ultra-high SNR microphone

16 years' industry experience allows us to strive for new goals



High Performance Microphone

- · The first high-performance microphone fully developed by AAC with in-house design, packaging and testing
- SNR >70dBA, high uniformity and reliability.



Smart Microphone

- · Integrated AI chip, enhanced microphone component that is able to extract and process audio information.
- Independent offline voice processing, highly integrated and customized.

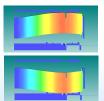


AAC acquired WiSpry, an American semiconductor company, in 2015 and set our foot in RF-Front End field. We boast more than 2 decades' rich product experience for RF MEMS and extensive R&D and manufacturing capabilities for MEMS, which allows us to deliver industry-leading high-performance RF MEMS products and revolutionary wireless technologies.

Next Generation MEMS Antenna Tuner High Q factor and wide tuning range, higher

voltage resistance and linearity, reliability and ESD performance transcending the limitations of MEMS component

- · >100 Q @ 700MHz, 70 Vrms · >1B reliability



Next Generation MEMS Switch for Mobile Phone

It has overcome the limitations of Ron and Coff performance of SOI switch and significantly improve voltage resistance and linearity:

- · Ron=0.7 ohm, Coff=25 fF
- · >90 Vpeak

About AAC Technologies

Founded in 1993 and listed on the Hong Kong Stock Exchange in 2005 (Ticker Symbol: HK2018), AAC Technologies is a world-leading solution provider for smart devices. The company boasts the cutting-edge technologies in material R&D, simulation, algorithm, design, automation and manufacturing process development, which enables us to provide most advanced miniature technological solutions in fields like acoustics, optics, EM Drives, Precision Processing, MEMs, Wireless RF and antenna. For more information, please visit our official website: www.aactechnologies.com