AICAS 2022 Exhibition Introduction

Please send the company introduction or description of exhibition to AICAS 2022 secretariat. If you don't have any materials, please fill out this 'Exhibition Introduction'. the company introduction and exhibition introduction will be uploaded with company CI on the online exhibition page on the website. We recommend a **pdf file format** for materials. Thank you for cooperation.

| Company Name | SK hynix |
|----------------|-----------------------------------|
| Website | https://www.skhynix.com/ |
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| Exhibit item | GDDR6-AiM (Accelerator in Memory) |
| Introduction | |
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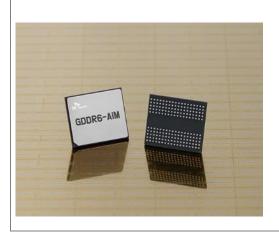
X Please fill out the exhibition or introduction of the company in English.

For the first product that adopts the PIM technology, SK hynix has developed a sample of GDDR6-AiM (Accelerator in memory). The GDDR6-AiM adds computational functions to GDDR6 memory chips, which process data at 16Gbps. A combination of GDDR6-AiM with CPU or GPU instead of a typical DRAM makes certain computation speed 16 times faster. GDDR6-AiM is widely expected to be adopted for machine learning, high-performance computing, and big data computation and storage.

GDDR6-AiM runs on 1.25V, lower than the existing product's operating voltage of 1.35V. In addition, the PIM reduces data movement to the CPU and GPU, reducing power consumption by 80%. This, accordingly, helps SK hynix meet its commitment to ESG management by reducing carbon emissions of the devices that adopt this product.

In this exhibition, SK hynix will showcase GDDR6-AiM in FPGA-based AiM Evaluation platform (shown below) and demonstrate AiM's performance with various memory-bound machine learning (ML) applications.

<GDDR6-AiM>



<GDDR6-AiM Evaluation Platform>

