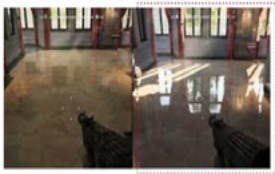


Invest KOREA Market Place

Invest KOREA Market place (IKMP) is an online business matching platform available on Invest KOREA's website with information on approximately 300 Korean companies seeking to partner with foreign investors. This month, we introduce some outstanding companies in Korea's semiconductor industry.

COMPANY
A



Ray Tracing Off Ray Tracing On

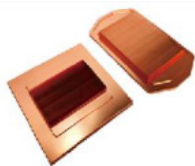
Core Graphics Technology,
Ray Tracing

Ray Core IP (Ray tracing)	<ul style="list-style-type: none"> 1st Gen Full Ray-Path Tracing MIMO architecture Various RT Engines 1.2 Compatible GPU IP
RAY (GPGPU)	<ul style="list-style-type: none"> RISC-V based AI Computing Acceleration IP architecture OpenCL Compatible RISC-V GPGPU IP
IPIC (Thermal Eng)	<ul style="list-style-type: none"> IPIC of Miniature GPU Chip (8mm, 12.5mm) GPU based Addressing IP, 10 TeraOPS
Shader (Simulation)	<ul style="list-style-type: none"> Completed the contract of Verisilicon's IP usage 1 TeraOPS/10mm, 2mm I/O Rate 1200 pixels/sec

Product Line-up

Investment Requirement		Company Profile	
Amount	USD 10 million	Patents and Certificates	- Registered 22 patents, incl. ray tracing cores and ray tracing chips, 11 trademarks, 3 service marks - Applied for 6 patents - 1 trademark pending
- Applied for 6 patents	Equity Investment, Join Venture, M&A	Financial Performance	(Sales in 2022) - USD 2.02 million
<p>Investment Highlights</p> <ul style="list-style-type: none"> GPU market GPUs grew in the late 2000 s as they were installed in smartphones and tablet PCs, and with the recent expansion of AI devices, the GPU market is expected to grow from 33 billion in 2021 to 477 billion to 2030. As the importance of General Purpose Graphic Processing Unit (GPGPU), which is optimized for big data analysis where parallel computing is essential, is increasing, the demand for GPUs is also increasing due to the increase in parallel computing volume. Development of the world's first Ray Path Tracing capable GPU IP and commercialization of MIMD GPU architecture For ray tracing GPU IP, the company has signed a license agreement with Verisilicon, the No. 1 company in China and No. 7 in the world, currently using it as the core technology of its Metaverse GPU chip. For GPGPU IP, the company will market it as an integrated solution with RISC_V CPUs in partnership with Codaip, the EU's only RISC_V CPU company. The company plans to enter the European market based on its partnership with Codaip, and to enter the Chinese market based on its partnership with Verisilicon. It plans to incorporate overseas local offices and to develop its own commercial GPU semiconductors 			

COMPANY
B



Copper Skiving MICOR
FIN Heatsink



Copper Skiving
Heatsink

Investment Requirement		Company Profile	
Amount	USD 0.772 million	Patents and Certificates	- Registered 1 patent on method to the use heat sink manufacturing devices, 3 designs - 2 patents, 1 design pending
Investment Structure	Equity Investment	Financial Performance	(Sales in 2023) - USD 1.16 million
<p>Investment Highlights</p> <ul style="list-style-type: none"> Heatsink market Heatsinks are devices used to dissipate heat effectively and are widely used in industrial settings. In the existing PCS industrial market, extruded and pressed heatsinks are primarily used. The company's skiving heatsinks have improved heat dissipation performance by about 20 compared to existing products. Additionally, heatsinks have begun to be used to address high heat issues during semiconductor testing, and the company sells to top tier companies in the semiconductor test socket field. Furthermore, the application of heatsinks is expanding to railway vehicles and electric vehicle charging equipment. The company is providing quotes and producing samples for major domestic manufacturers. Particularly, skiving heatsinks are expected to be essential for immersion cooling, and the market is anticipated to expand rapidly due to the increasing need for data centers driven by the speed of AI development. Micro cooling channel molding technology for improving the performance of electric vehicle inverters As the only specialized company in Korea with fundamental technology for manufacturing heatsinks for electric vehicle inverters and forming skiving cooling channels, the company was the first to apply skiving heatsinks to railway vehicles. After 3 years of research and development, it has secured its technological capabilities and holds patented, differentiated technologies compared to other companies. To counter the low cost supply from foreign companies, the company has completed the development of factory technology for mass production, designing processes that increase productivity by 400% and reduce costs by 50%. 			