

AI-Specialized Semiconductor Chip - EdgeCortix raises 2.9 Billion Yen

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EdgeCortix (Chuo, Tokyo), a designer and developer of semiconductor chips, will launch a new product specialized for artificial intelligence (AI) processing in Japan, North America and more in 2024. To fund mass production, the company has raised \$20 million (about 2.98 billion yen) through a third-party allocation of new shares with five companies, including SBI Investment, a venture capital (VC) firm, participating.

Semiconductor chips are core components embedded in electronic circuit boards. Achieving both low power consumption and high-speed computation is desired in these chips in order to prevent devices from overheating when AI performs advanced video processing, etc.

EdgeCortix's new product uses a proprietary design to reduce power consumption to less than 10 watts during operation and is capable of performing approximately 40 trillion operations per second.

Compared to typical competing products, the new product will increase computing power in relation to power consumption by a factor of 10. "The company will outsource mass production to a major semiconductor company and prepare a supply system for sales," says CEO Sakyasingha Dasgupta.

The price is expected to be about the same as competing products, and the size of the chip is expected to be reduced. The company plans to improve processing performance and energy efficiency, leading to lower costs and a smaller end product. The company will sell the new product to domestic and overseas electronics and automobile manufacturers.

The third-party allotment was underwritten by Global Hands On VC, Monozukuri Ventures, and others.

Translation prepared by EdgeCortix. Full Original Japanese Article:

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Compared to general competitors, calculation speed per power consumption increased by 10 times (EdgeCortix semiconductor chip)