

Booth No. **8.1B40.8**

Gwanak Analog Co., Ltd.



Year Established	2018		Type of Business	Manufacturing
Website	www.gwanakanalog.com		Main Export Countries	Korea, China, Japan
SNS	https://www.linkedin.com/company/82801815/admin/page-posts/published/			
Main Customer	Domestic Customers		International Customers	
	Samsung, Hyundai Mobis, Hyundai Motors		Automotive, consumer and industrial	
The Person In Charge	Name	Department	Position	
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Company Description

Gwanak Analog is a semiconductor fabless company specializes in providing system semiconductor solutions based on high-efficiency power, precision signal processing, and high-performance/low-power MCU/DSP technologies. Leveraging its proprietary IPs, the company integrates functions such as Power, Analog, and MCU into a single chip through high integration, thereby developing Smart Power/Analog SoCs.

Product

GW2110 - On-Device AI

Function and Usage : The GW2110 is an advanced Synthetic Signal Processing SoC designed for Edge AI applications. With an on-chip Inference Accelerator based on cutting-edge CNN architecture and hardware activation functions optimized for efficient speech processing, this device can provide real-time Text-to-Speech (TTS) capabilities without relying on a cloud server.

This product can be used in the following applications:

Smart home automation, Voice-controlled IoT devices, Healthcare, medical, and industrial devices, Environmental monitoring, Retail, hospitality, and education, Automotive and accessibility solutions, Robotics and automation

Marketing and Selling Points : Utilizing its internal Edge AI engine and speech processing, the GW2110 offers comprehensive environmental insights and data analysis, including sensor fusion capabilities.

Featuring multiple interfaces, including analog voltage input channels, the GW2110 seamlessly integrates with a variety of sensors. From gas sensors for detecting CO and CH4 to pressure, temperature, and humidity sensors, it empowers intelligent and user-friendly environmental monitoring.

GW8318 - Proximity Sensor

Function and Usage : The GW8318 is an advanced 8-channel capacitive sensor designed specifically for Specific Absorption Rate (SAR) applications. Operating at a high-performance level with a single voltage input of 1.8V, this intelligent and smart sensor excels in sensing user presence at multiple distances, thereby significantly enhancing SAR functionalities.

This product can be used in the following applications:

Smartphones, Tablets, Laptops, Wireless Portable Devices, Automotive

Marketing and Selling Points : The GW8318 communicates its data through the I2C serial bus, which is compatible with 1.8V host control. This communication allows for reporting body detection/proximity and facilitates easy adjustment of parameters. When proximity is detected, the NIRQ output is activated, offering users the option to determine the relative proximity distance or receive a detection indication only.

Equipped with an on-chip auto-calibration controller, the GW8318 can maintain peak performance across a wide range of temperature, humidity, and noise conditions. This feature ensures regular sensitivity adjustments, leading to simplified product development and enhanced overall performance.