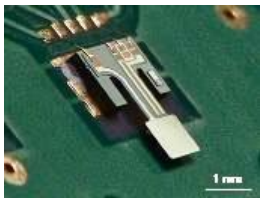
CAST NEWS

GIT Japan Uses CAST 8051 in AIST's MEMS-EFS Electrostatic Sensor

Woodcliff Lake, NJ and Rittoh, Japan — March 19, 2014 — GIT Japan has used an 8051 IP core licensed from CAST, Inc. in a custom chip GIT developed for Japan's National Institute of Advanced Industrial Science and Technology (AIST).

The 8051-managed chip implements AIST's research on applying Micro-Electro-Mechanical Systems Electrostatic Field Sensors (MEMS-EFS) to detecting and measuring static charges. The system employs self-sensitive piezoelectric microcantilevers and detects and processes the charge produced by their vibration to yield an output voltage proportional to the intensity of the detected electro-static field.



Piezoelectric MEMs static sensor developed by AIST (used with permission).

"CAST's efficient, easy-to-use 8051 core was an excellent solution for our challenge of building AIST's innovative electrostatic field sensor system," said Yoshinori Nakagawa, design engineer for GIT Japan.

AIST's published research project was supported by the Funding Program for World-Leading Innovative R&D on Science and Technology (FIRST Program), initiated by Japan's Council for Science and Technology Policy (CSTP). Learn more about AIST at http://www.aist.go.jp.

AIST
NATIONAL INSTITUTE OF
ADVANCED INDUSTRIAL SCIENCE
AND TECHNOLOGY (AIST)

GIT Japan Inc. is based in Rittoh, Japan, and has offices in Yokohama and Osaka and in San Jose, California. The company offers LSI semiconductor and high-density circuit board design and manufacturing services, and is a leading developer of ultra-wide-band (UWB) technology. Learn more at www.git-inc.com.

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Semiconductor intellectual property provider **CAST, Inc.** is a world leader in 8051 IP products and experience. These are part of CAST's royalty-free IP core and subsystem product line that also features 32-bit BA2x processors, H.264 and JPEG compression, system interconnects and peripherals, and more. Call CAST at +1 201.391.8300 or visit www.cast-inc.com, or follow @castcores on Twitter for more information. # # #

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