



MDT Introduces TMR1370 Ultra-Low-Power Magnetic Switch IC Enabling More Than Two Years of Standby Operation in CGM Devices

Descrizione

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Next-Generation TMR Magnetic Switch with Ultra-Low 50nA Maximum Supply Current Expands MDT's Proven CGM Sensor Portfolio

ZHANGJIAGANG, China, July 18, 2026 /PRNewswire/ MultiDimension Technology Co., Ltd. (MDT), a leading supplier of magnetic sensors and a pioneer in Tunneling Magnetoresistance (TMR) technology, today introduced the TMR1370 ultra-low-power magnetic switch IC, the newest addition to MDT's magnetic sensing portfolio for continuous glucose monitoring (CGM) devices. Building on the proven TMR1367, TMR1368, and TMR1369 family, the TMR1370 delivers significantly lower power consumption, enhanced voltage compatibility, and a smaller package to enable next-generation CGM systems with ultra-long standby life.

Optimized for battery-powered CGM devices, the TMR1370 features a maximum supply current of only 50nA, with approximately 30nA typical at a 3V supply. When combined with the magnetic wake-up mechanism widely adopted in CGM devices, the TMR1370 enables more than two years of standby operation, helping extend product shelf life while preserving battery capacity for continuous glucose monitoring after activation.

The TMR1370's exceptional power efficiency is enabled by MDT's proprietary TMR technology platform, which combines advanced magnetic sensor design, optimized device architecture, and proprietary wafer process technology to achieve high magnetic sensitivity together with ultra-low power consumption. Complementing MDT's existing X-axis and Z-axis CGM magnetic switch portfolio, the TMR1370 gives system designers greater flexibility to optimize sensor orientation and mechanical layout for a wide variety of CGM architectures while enabling easy migration from previous-generation devices.

Key Features

Samples of the TMR1370 are available through DigiKey and MDT's online store at www.tmr-sensors.com. For volume pricing, delivery information, and technical specifications, contact MDT Global Sales at sales@dowayusa.com.

About MDT MultiDimension Technology was founded in 2010 in Zhangjiagang, Jiangsu Province, China, with branch offices in Shenzhen, Chengdu, and Ningbo in China, Singapore, Tokyo, Japan, and San Jose, Calif., USA. MDT has developed a unique intellectual property portfolio, and its self-owned state-of-the-art TMR manufacturing facilities that can support volume production of high-performance, low-cost TMR magnetic sensors to satisfy the most demanding application needs. Led by its core management team of elite experts and veterans in magnetic sensor technology and engineering services, MDT is committed to creating added value for its customers and ensuring their success. For more information about MDT please visit <http://www.multidimensiontech.com>.

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