Aquiba Selects Energy Micro Low Power Microcontroller for Next-Generation Smart Water Meter

Energy Micro has announced that Aquiba, a joint venture between Sentec and Takahata Precision, has selected Energy Micro's energy friendly EFM32 Gecko microcontroller for use in its groundbreaking A200 smart water meter. Chosen for its ultra low power performance, processing capability and peripheral set, the EFM32G890F128 microcontroller handles the A200's high accuracy flow measurement, data logging, secure communication and application firmware upgrades.

Providing a complete platform for intelligent water networks, the Aquiba A200 smart water meter outperforms traditional mechanical meters, has no moving parts and provides world-class metrology ensuring high accuracy measurement even at the lowest flow rates and over the product's full service lifespan. To allow water operators to plan for future changes in climate and network infrastructure, the A200 also has the in-built flexibility to enable it to be rapidly adapted to meet future metering requirements.

In real-world benchmark tests, Energy Micro's EFM32 Gecko microcontroller has proven capable of consuming a quarter of the battery energy required by alternative 8-bit, 16-bit and 32-bit microcontrollers. Built around the 32-bit ARM® Cortex™-M3 processor core, the microcontroller is characterized by very low active and standby power consumption, fast processing and wake-up time and highly flexible low energy modes. It provides an array of low power peripheral functions, able to be operated autonomously and supports energy debugging, through its unique Advanced Energy Monitoring system and Simplicity Studio toolset.

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