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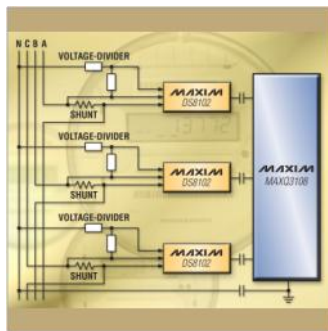
Telegesis

ember

NDK
Crystal Bridge to the Future

GainSpan

Chipset eliminates costly current transformers in polyphase energy meters



By replacing current transformers with shunts, the DS8102 and MAXQ3108 chipset reduces system cost and board space for a polyphase electricity meter.

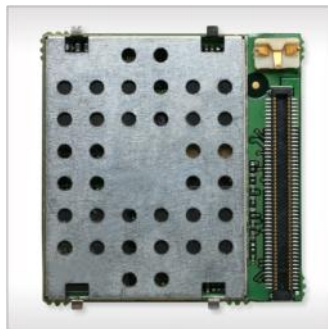
The DS8102 contains two delta-sigma modulators with programmable gain to 32x. Outputs from the two modulators are encoded into a single bit stream to minimize the cost of data coupling.

The MAXQ3108 is a dual-core RISC controller with three Manchester decoding blocks and three cubic-sinc filters for the companion DS8102 devices. Maxim provides an implementation of a polyphase, multifunction energy-metering DSP, and a complete reference design.

This chipset is ideally suited for polyphase electricity meters.

Read more at [Dallas Maxim](#)

When small size & low power matter



The **Enabler III product family** is the newest generation of quad band GSM/GPRS/EDGE embedded platforms that bring together low power in compact footprints and include both BGA and multi-pin connector forms for ease of hardware integration.

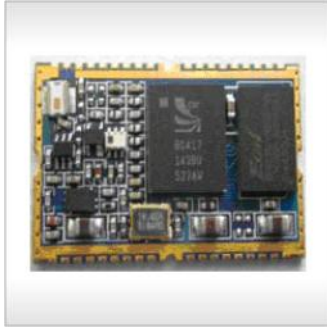
The Enabler III is a fully certified quad-band OEM module family that packs complete GSM/GPRS/EDGE functionality into a compact footprint. The embedded software environment enables development of essential capabilities — mobile connectivity and device intelligence — by utilizing

built-in rules engine, network router and control and automation capabilities. With power consumption of <2.5mA the Enabler III significantly enhances longer battery life.

To accelerate deployment, use Enfora's middleware to quickly build links from your asset-tracking devices to your existing enterprise applications. The middleware provides a complete view of your devices, enabling proactive asset management. It also supports popular enterprise software such as MS SQL Server, MySQL and Oracle.

Read more at [Enfora](#)

Bluetooth surface mount module



•**The LM072 is a Bluetooth Class 1 Surface Mount Module** with the following features:

- Access point Domestic and Industrial applications, Personal Digital Assistants (PDA), Serial Adapter GPS, POS, Barcode Reader, Digital camera, Printer, Cellular phone, & Cordless handset.
- Bluetooth Ver. 2.0+EDR certification Transmit Power up to +18dBm(class1)
- Low current consumption: Hold, Sniff, Park, Deep sleep mode 3.0V to 3.6V operation. Full Bluetooth Data rate over UART and

USB Support up to 7 ACL links and 3 SCO links Enhanced Data Rate(EDR) compliant for both 2Mbps and 3Mbps modulation modes

- Interface: USB, UART & PCM(for voice codec) SPP, HSP/HFP ,HID, DUN firm ware are available
- Support for 802.11 Co - Existence RoHS Compliant Small outline: 28.2 X 15.0 X 2.8 mm

Read more at [LM Technologies](#)

Micropower & omnipolar hall switch – very high sensitivity



Driving transistor-size to sub-microns level, the MLX90248 New Generation brings noticeable key improvements for growing and more demanding portable and handheld devices.

The latest cutting edge technology embedded in the device helps to make applications making use of it go green.

Based on the Hall-Effect principle, the MLX90248 provides a magnetic contact-less and solid-state switching for application where special power management schemes such as standby mode are a

must in order to save battery power or reduce overall power-consumption.

By the use of a very high sensitivity Hall sensor, a very small and cheap magnet is enough to trigger the MLX90248, hence it can easily replace reed switch. The major benefit of using a Hall sensor is to provide "electronic" commutation, which is bounce-free, more reliable and with increased lifetime compared to usual mechanical contacts.

Read more at [Melexis](#)

APPLICATION NOTES

An Efficiency Primer for Switch-Mode, DC-DC Converter Power Supplies

Abstract: Techniques for calculating and predicting efficiency losses in each component of a switch-mode power supply (SMPS) are detailed. In addition, features and techniques that improve switching regulator efficiency are discussed.

More: <http://www.maxim-ic.com/AN4266>



www.cstelectronics.co.za