

MAXIM

LANTRONIX

CUSTOM

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HID

SignalQuest™
Precision Measurement

Telegesis

ember

NDK
Crystal. Bridge to the Future.

GainSpan

Remotely monitor, manage and control industrial equipment over the net



The UDS1100-IAP is a rugged and powerful tool which enables users to connect, manage and control just about any piece of industrial equipment from virtually anywhere over Ethernet or the Internet. This single-port Device Server is a quick, simple and inexpensive way to bring the advantages of real-time or on-demand information access.

Using an open Ethernet architecture as a standard provides the flexibility for equipment to communicate to virtually any type of industrial device. When used in conjunction with an OPC server, most Windows® based HMI, SCADA

and PC-based control applications have full access to information in the industrial equipment networked by the UDS1100-IAP.

Read more at [Lantronix](#)

Energy measurement chip targets home, enterprise solutions



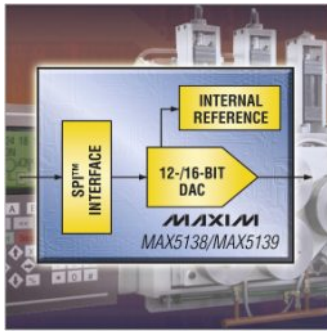
The Teridian 78M6612 is a highly integrated, single phase, power and energy measurement and monitoring SOC which includes a 32-bit compute engine (CE), an MPU core, RTC, and FLASH. Teridian's patented Single Converter Technology™ with a 22-bit delta-sigma ADC, 4 analog inputs, digital temperature compensation, and precision voltage reference supports a wide range of single phase, dual outlet power measurement applications, with very few external components.

With measurement technology leveraged from Teridian's flagship utility metering IC's it offers features including 32KB of FLASH program memory, 2 KB shared RAM, three low power modes with internal timer or external event wake-up, 2 UARTs, I2C/Micro wire EEPROM I/F, and an in-system programmable FLASH. Complete Outlet Measurement Unit (OMU) and AC Power Monitor (AC-PMON) firmware is available and can be pre-loaded into the IC.

A complete array of ICE and development tools, programming libraries and reference designs enable rapid development and certification of Power and Energy Measurement solutions that meet the most demanding worldwide electricity metering standards.

Read more at [Teridian](#)

Industry's Smallest 16-Bit DACs with Pin-Programmable Zero or Midscale Power-Up



The **MAX5138/MAX5139** are a family of single-channel pin-compatible and software-compatible 16-bit and 12-bit DACs. The MAX5138/MAX5139 are low-power, 16-bit/12-bit, buffered voltage-output, high-linearity DACs.

They use a precision internal reference or a precision external reference for rail-to-rail operation. The MAX5138/MAX5139 accept a wide +2.7V to +5.25V supply-voltage range to accommodate most low-power and low-voltage applications.

These devices accept a 3-wire SPI™-/QSPI™-/MICROWIRE™-/DSP-compatible serial interface to save board space and reduce the complexity of optically isolated and transformer-isolated applications.

The digital interface's double-buffered hardware and software active-low LDAC provide simultaneous output update. The serial interface features a active-low READY output for easy daisy-chaining of several MAX5138/MAX5139 devices and/or other compatible devices.

Read more at [Maxim](#)

Telegesis most advanced ZigBee Module to date



The **ETRX3 is the 3rd generation of advanced ZigBee modules** from Telegesis and the first module family on the market to feature the EM357 the latest ARM® Cortex M-3 based SOC from Ember.

The ETRX3 has a footprint of just 19mm x 25mm for both standard and PA/LNA versions which represents a 40% reduction in size compared to the ETRX2 module and will be available with either an on board antennae or a Hirose U.FL connector to allow connection of external antennae.

A link budget of 105dB on the standard ETRX3 module gives excellent performance and RF power can be further boosted by use of the ETRX3-LR which adds an extra LNA+PA boosting the link budget to 123dB. The ETRX3 is a low power 2.4GHz ZigBee module series integrating a 2.4 GHz, IEEE 802.15.4 compliant transceiver with 192k of flash, 12k of RAM, and many advanced peripherals.

Read more at [Telegesis](#)

APPLICATION
NOTES

Using a Linear Regulator to Produce a Constant Current Source ...

More: http://www.maxim-ic.com/appnotes.cfm/an_pk/4404



www.cstelectronics.co.za