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Sets Bar for AC Power Measurement Solutions with Best in Class Accuracy and Self Calibration



Teridian Semiconductor announced the availability of its first system-on-a-chip (SoC) for power outlet measurement and monitoring. The 78M6612 (6612)

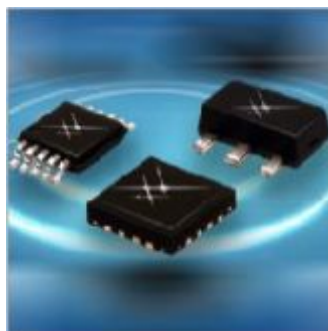
extends Teridian's extensive smart metering product line with a new class of integrated circuits (ICs) designed to help end users understand the AC power they are consuming. The 6612 enables duplex AC power measurement for use by original equipment manufacturers (OEMs) of home automation products, as well as enterprise OEMs for servers, power supplies, power distribution units and communication equipment. Teridian has a long history

in energy measurement with over 20 years of innovation in the smart metering arena and is leveraging its proprietary technology in this first of a series of chip solutions. The 6612 offers best in class accuracy of +/-0.5%, over a 2000:1 dynamic range, with self calibration to help facilitate rapid design time and optimal manufacturing efficiencies.

The 6612 is a highly integrated, single phase, AC power measurement and monitoring SoC, which includes a 32-bit compute engine, an MPU core, real time clock, and FLASH memory

Read more at [Teridian](#)

PHEMT GaAs IC High Linearity 3 V Control SPDT Switch 0.1–2.5 GHz



The AS193-73 is a PHEMT GaAs FET IC high linearity SPDT switch in a SOT-6 plastic package. This switch

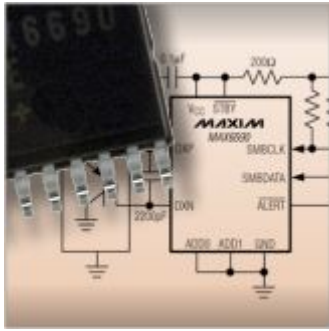
has been designed for use where extremely high linearity, low control voltage, high isolation, low insertion loss and ultra miniature package size are required. It can be controlled with positive, negative or a combination of both voltages. Some standard implementations include antenna changeover, T/R and diversity switching over 3 W. The AS193-73 switch can be used in many analog and digital wireless communication systems including cellular, GSM and UMTS applications.

Features:

- 2.5 to 5 V linear operation
- Harmonics H2, H3 > 65 dBc @ PIN = 34.5 dBm
- Low insertion loss (0.35 dB @ 0.9 GHz)
- High isolation (24 dB @ 0.9 GHz)
- Ultraminiature SOT-6 package
- PHEMT process
- Available lead (Pb)-free and RoHS-compliant MSL-1 @ 260 °C per JEDEC J-STD-020

Read more at [Skyworks](#)

2°C Accurate Remote/Local Temperature Sensor with SMBus Serial Interface



The MAX6690 is a precise digital thermometer that reports the temperature of both a remote P-N junction and its own die. The remote junction can be a diode-connected transistor — typically a low-cost, easily mounted 2N3904 NPN type or 2N3906 PNP type—that replaces conventional thermistors or thermocouples. Remote accuracy is $\pm 2^\circ\text{C}$ for multiple transistor manufacturers, with no calibration needed. The remote junction can also be a common-collector PNP, such as a substrate PNP of a microprocessor (μP).

The 2-wire serial interface accepts standard System Management Bus (SMBus™), Write Byte, Read Byte, Send Byte, and Receive Byte commands to program the alarm thresholds and to read temperature data. Measurements can be done automatically and autonomously, with the conversion rate programmed by the user, or programmed to operate in a single-shot mode. The adjustable conversion rate allows the user to optimize supply current and temperature update rate to match system needs. When the conversion rate is faster than 1Hz, the conversion results are available as a 7-bit-plus-sign byte with a 1°C LSB. When the conversion rate is 1Hz or slower, the MAX6690 enters the extended mode. In this mode, 3 additional bits of temperature data are available in the extended resolution register, providing 10-bit-plus-sign resolution with a 0.125°C LSB. Single-shot conversions also have 0.125°C per LSB resolution when the conversion rate is 1Hz or slower.

Read more at [Maxim](#)

LM780 - Bluecore 4 Module Class 2 Antenna On Board



The LM780 has the following features:

- Bluetooth v2.1 + EDR, Class 2 radio with integrated chip antenna, Secure Simple Pairing support
- Low power consumption, 3V – 5.5V operation, Full Bluetooth Data rates upto 3Mbps supported
- Interface: USB, UART & PCM (for voice codec), Multipoint support, SPP/HID profiles available
- AT Command set used for module configuration, 802.11 Co-Existence, Lead free - RoHS compliant, Small Size: 15.20 mm × 26.92mm × 2.0 mm

Some of the many applications, include:

- Serial Communications, Medical devices, Domestic and Industrial applications, Embedded devices
- Remote Monitoring & control, Personal Digital Assistant (PDA), GPS, POS, Bar code reader

Read more at [LM](#)

APPLICATION
NOTES

Murphy's Law and the Risks of Designing "Off Data Sheet" ...

More: http://www.maxim-ic.com/appnotes.cfm/an_pk/4429



www.cstelectronics.co.za