

About us

A specialist in analog technology, we design and manufacture semiconductor solutions for the management of power and analog signals in high performance products.

Our market leading range of application specific linear ICs and discrete semiconductor devices meets the demand for greater power economy, precision and speed in analog circuit design.

Here's just a taste of our diverse series of dedicated ICs for motor control, lighting, audio and DBS applications. A selection of our complementary power management components is also presented, illustrating our ability to provide the complete solution.

Power management



Bipolar transistors

- Very low $V_{CE(sat)}$ and high h_{FE} values
- High current capability
- High P_D across the range in small packages
- Increased current handling / duty cycles
- Multi-chip device combinations

www.zetex.com/bipolar



Schottky diodes

- Very low V_F at T_A above 85°C
- Single and isolated dual die specifications
- Miniature SOD, SOT and MLP options
- High current capabilities in small packages
- 40V and 60V V_R types

www.zetex.com/schottky

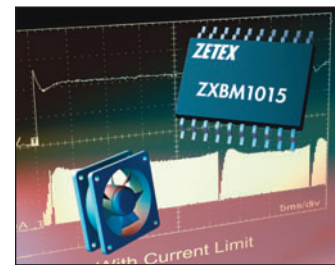


MOSFETs

- N and P channel
- Planar and Trench processes
- 20V to 450V range
- Single, dual and H-bridge configurations
- IntelliFET™ self protected FET

www.zetex.com/mosfet

Motor control



Single-phase variable speed BLDC motor pre-driver

- PWM output drive for variable speed
- Current limit
- Minimum speed setting
- Lock detect and auto restart
- Adjustable communication delay

www.zetex.com/motor



Two phase variable speed BLDC motor pre-driver

- PWM output to drive external transistors
- Compatible with voltage, PWM or thermistor control
- RD and FG output signal options
- Minimum speed setting
- Small MSOP10 or QSOP16 packages

www.zetex.com/motor

Audio



Digital input Class D audio amplifiers

- High precision modulation for amazing detail
- 0.02% total harmonic distortion (THD)
- 114dB dynamic range
- Frequency response to 70kHz
- Reference design output power up to 150W into 8Ω

www.zetex.com/audio

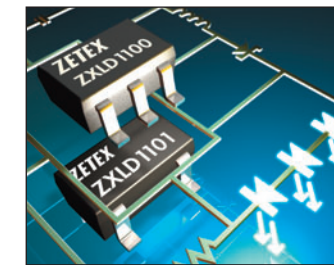


Analog input Class D audio amplifiers

- < 0.05% THD+N
- Noise floor -130dB
- Complete solution: controller IC, MOSFETs
- 25W to 500W per channel reference designs
- Mono, stereo and 5.1 channel architectures

www.zetex.com/audio

Lighting



LED drivers

- High efficiency (>80% typically)
- Internal switch
- External switch for high power
- 0.8V input voltage
- True analog dimming via PWM

www.zetex.com/leddriving

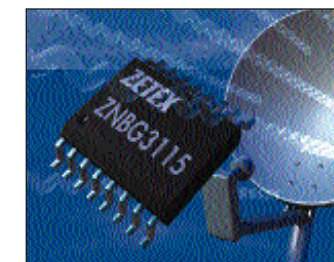


OLED and LCD bias

- Internal switch rated at 28V
- High efficiency (>80% typically)
- Output voltage adjust via DC, PWM or fixed
- Low shutdown current 100μA
- 500kHz and 1MHz switching frequencies

www.zetex.com/lcd

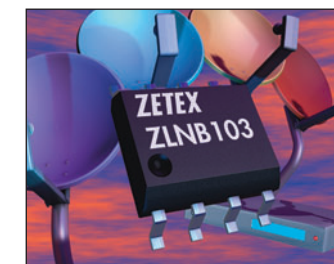
Direct broadcast by satellite



LNB control and power management

- Bias and protection for GaAs FETs
- MUX control and microprocessor interfaces
- Integrated detectors (voltage, tone & DiSEqC™)
- Efficient integrated power management
- IF solutions

www.zetex.com/satproducts

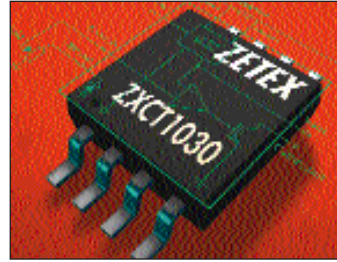


Satellite multi-switch solutions

- Controllers for pin diode and IC MUXs
- Eliminates external voltage regulators
- Integrated detectors (voltage, tone & DiSEqC™)
- Detector ignores unwanted signals
- Highly integrated solution, reducing PCB area

www.zetex.com/satproducts

Power management



Current monitors

- Highly integrated
- Input voltage range 2.5V to 20V
- Quiescent currents from 3.5µA to 270µA
- Current and voltage output variants
- 1% sensing accuracy

www.zetex.com/zxct



Voltage references and shunt regulators

- TL431 equivalents at 2.5V and 1.25V with low I_Q
- LM4040 equivalents at 2.5V, 4.1V and 5.0V
- LM4041 equivalent at 1.225V
- LM285 equivalent at 2.50V
- SOT23 and TO92 packages available

www.zetex.com/reference



Linear regulators

- Low dropout 85mV
- Low noise
- Quiescent current <40µA
- Wide output voltage variants
- Automotive load dump capability

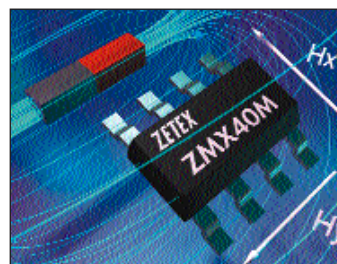
www.zetex.com/regulators



DC-DC controllers

- Single cell boost
- 2 cell and 1 Li-Ion cell boost
- PFM for better stability
- Programmable peak current
- SOT23 and MSOP packages

www.zetex.com/DC-DC



Magneto-resistive sensors

- Greater sensitivity than Hall effect devices
- Highly accurate linear position and motion sensing
- Isolated current sensing
- Angular position measurement
- Internal magnet to bias sensor into linear region

www.zetex.com/sensors



Analog solutions for high performance design



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