

FEATURES

- Comprehensive support from design conceptualization through long-term production
- Over 150 man-years of custom mixed-signal design experience
- Full service manufacturing capabilities including in house assembly, test, environmental screening, and failure analysis
- Production proven success in all major markets
 - Commercial/Consumer
 - Industrial
 - Medical
 - Automotive
 - Communications
- Ability to leverage non-volatile memory with analog and digital circuitry for:
 - Analog circuit trimming
 - System configuration
 - IC identification codes
 - Data storage through power cycling
- Fab independent strategy provides:
 - Access to the most advanced process technologies available
 - Flexibility to utilize the process technologies to best fit the customers technical and cost requirements
- Scalable design library for mixed-signal ASIC design provides wafer fab and technology independence
- ISO-9001 and MIL-PRF-38535 certified

DESIGN EXAMPLES

- Spread spectrum receiver/transmitter ICs for wireless applications
- Low noise, low-level signal processors for medical diagnostic equipment
- Sensor Interfaces – Magnetoresistive, Hall effect, X-ray detectors, temperature, accelerometer
- RF Tag ICs
- Hearing Aid ICs
- Display drivers – LCD and LED
- Motor Controllers
- Data converters – A/D, D/A, C/F, V/F
- Battery charge Monitors
- Elapsed time and event monitors
- Security Devices
- Automotive gauges
- FPA Read-outs – IR, visible, magnetic

MACROCELL LIBRARY EXPERIENCE

- Band-gap references
- Switched capacitor circuits
- Data conversion
 - Sigma-delta converters
 - Flash ADCs
 - Current-to-frequency converters
 - Successive-approximation ADCs
 - Multistage amplifiers
 - Integrators
 - Charge balancers
- Voltage regulators
- Amplifiers
- Oscillators
- Power supplies
- Memory (single/dual-port RAM/ROM, nonvolatile EEPROM and latches)
- First-in/first-out (FIFO) memories
- Charge pumps (Voltage doublers)
- Microcontrollers
- Watchdog circuits
- Bias generators
- Input/output circuitry (receivers, drivers, interfaces)
- Analog/digital phase-locked loops
- Pseudorandom noise generators
- Frequency generators
- Tone detectors
- Digital signal processors
- Self-powered circuits for tag applications

This product is controlled for export under the Export Administration Regulations (EAR), 15 CFR Parts 730-774. A license from the Department of Commerce may be required prior to the export of this product from the United States.

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