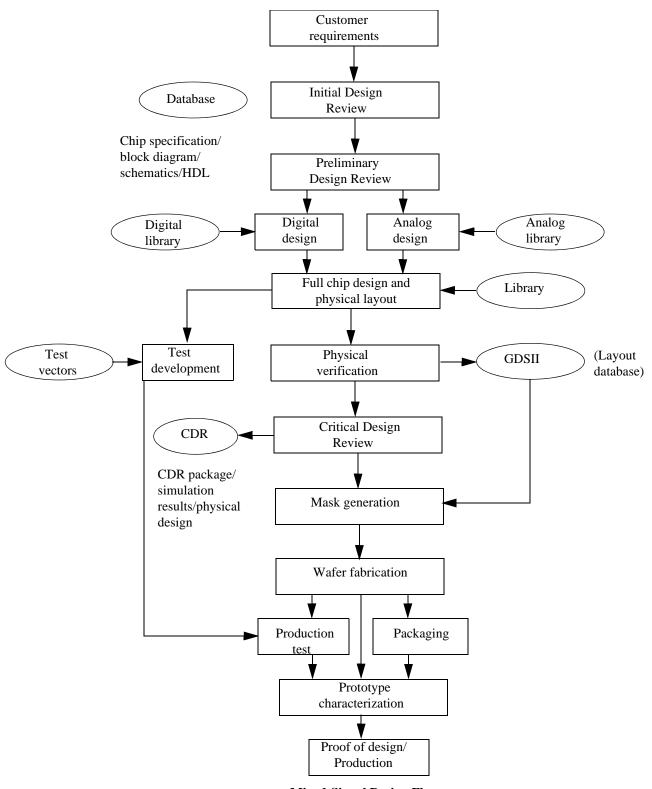
## Mixed-Signal Products Mixed-Signal Design Services Fact Sheet

December 2014



FEATURES			Hearing Aid ICs	
	Comprehensive support from design conceptualiza-		Display drivers – LCD and LED	
_	tion through long-term production		Motor Controllers	
	Over 150 man-years of custom mixed-signal design		Data converters – A/D, D/A, C/F, V/F	
_	experience		Battery charge Monitors	
	Full service manufacturing capabilities including in		Elapsed time and event monitors	
	house assembly, test, environmental screening, and failure analysis		Security Devices	
	Production proven success in all major markets		Automotive gauges	
_	- Commercial/Consumer		FPA Read-outs – IR, visible, magnetic	
	- Industrial	<b>N</b> #	A CD C CT L I LDD A DAY EVENT TO CT	
	- Medical	IVI	ACROCELL LIBRARY EXPERIENCE	Ľ
	- Automotive		Dead and Comment	
	- Communications		Band-gap references	
_			Switched capacitor circuits	
	Ability to leverage non-volatile memory with analog		Data conversion	
	and digital circuitry for:		- Sigma-delta converters	
	- Analog circuit trimming		- Flash ADCs	
	- System configuration		- Current-to-frequency converters	
	- IC identification codes		- Successive-approximation ADCs	
	- Data storage through power cycling		- Multistage amplifiers	
	Fab independent strategy provides:		- Integrators	
_	- Access to the most advanced process technolo-		- Charge balancers	
	gies available		Voltage regulators	
	- Flexibility to utilize the process technologies to		Amplifiers	
	best fit the customers technical and cost require-		Oscillators	
	ments		Power supplies	
	Scalable design library for mixed-signal ASIC		Memory (single/dual-port RAM/ROM, nonvola	atile
	design provides wafer fab and technology indepen-	_	EEPROM and latches)	
	dence		First-in/first-out (FIFO) memories	
			Charge pumpers (Voltage doublers)	
	ISO-9001 and MIL-PRF-38535 certified		Microcontrollers	
			Watchdog circuits	
DESIGN EXAMPLES			Bias generators	
			Input/output circuitry (receivers, drivers, interfa	aces)
	Spread spectrum receiver/transmitter ICs for wire-		Analog/digital phase-locked loops	
_	less applications		Pseudorandom noise generators	
	Low noise, low-level signal processors for medical		Frequency generators	
_	diagnostic equipment		Tone detectors	
	Sensor Interfaces – Magnetoresistive, Hall effect, X-		Digital signal processors	
_	ray detectors, temperature, accelerometer		Self-powered circuits for tag applications	
	RF Tag ICs			



Mixed-Signal Design Flow

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