

高性能模拟产品概述



放大器及线性产品

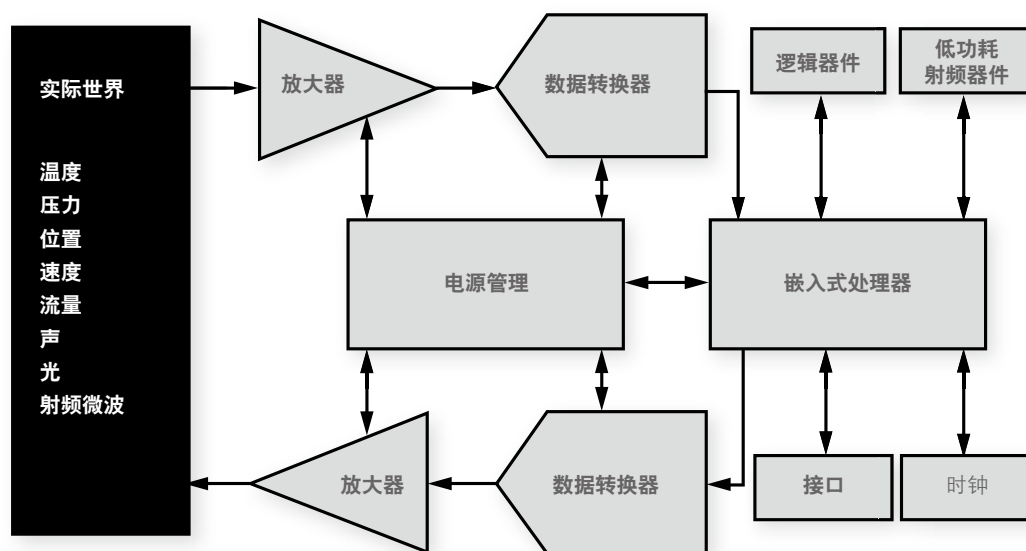
时钟及计时器

数据转换器

接口

电源管理

RF/IF 及 ZigBee® 解决方案



在德州仪器(TI)，我们深知只有助您成功才能成就自我。这也是我们提供“高性能模拟 >> 您的成功之道™”的初衷。

而今，TI 提供了比以往更为丰富的高性能模拟产品、应用知识及技术支持，可协助您更快的赢取市场。



高级产品满足您设计的性能需求 >> 从放大器及数据转换器直至电源管理、接口及无线解决方案，TI 均具有相应的高性能模拟 IC 以满足您的需求。



应用知识使您的设计流程更为轻松 >> TI 所开发的模拟及数字 IC 涵盖范围广、适用于一系列的应用，因此 TI 可提供完备的系统知识并可帮助您完成整个设计流程。



区域性的模拟技术支持为您的设计提供服务 >> TI 的全球模拟支持基础架构包括了最为广阔的模拟应用工程师网络，可为针对您所在的地区提供所需的支持。



模拟应用期刊

注册并获取我们季度性模拟应用期刊，您可以更轻松、快捷的了解相关的技术应用信息。此册在线期刊是应用论文的合辑，旨在使您的设计流程更为轻松。其主题包括了数据采集、电源管理、放大器、接口及低功耗射频。

www.ti.com.cn/aaaj

高性能模拟连接

您每月的TI 新型模拟产品更新信息



模拟连接电子新闻报

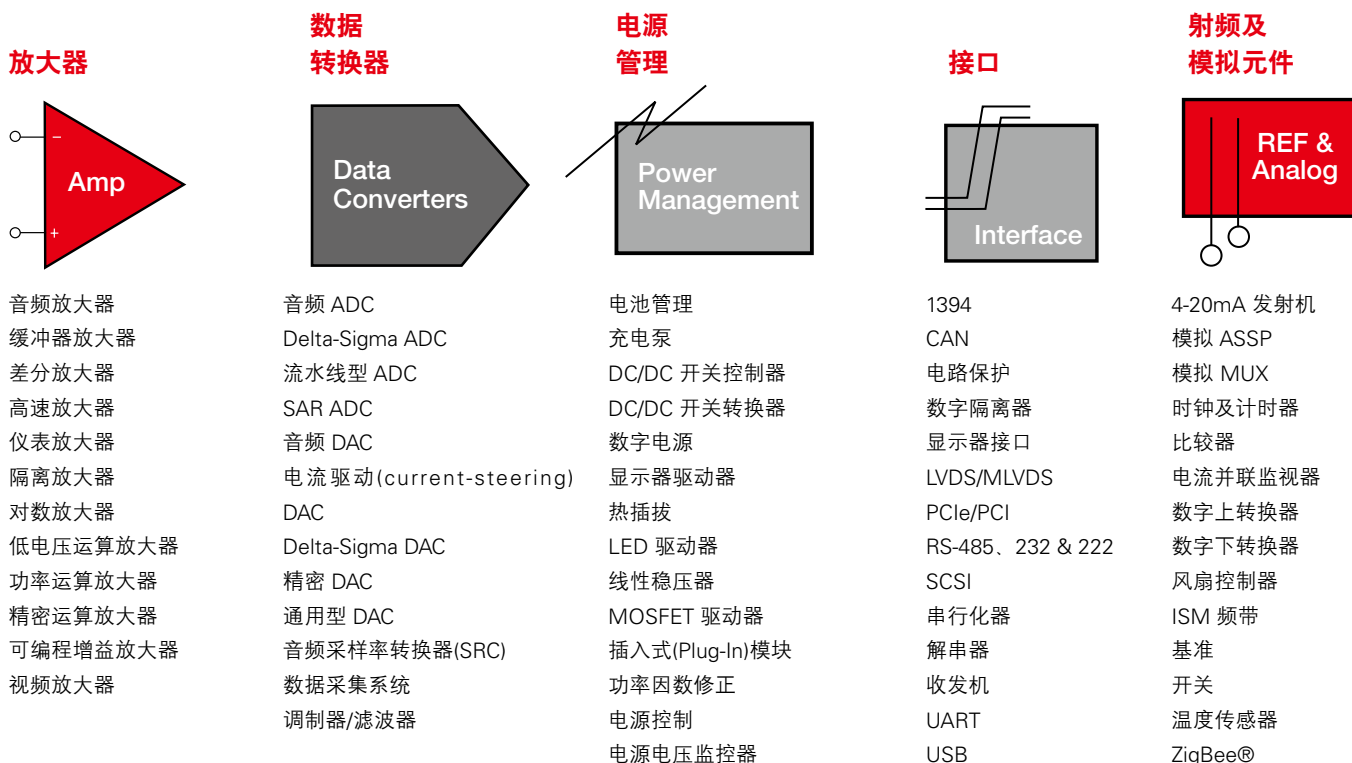
您需要更多的模拟产品信息吗？现在就订阅模拟连接电子新闻报，以获取关于 TI 模拟产品的最新信息，包括放大器、电源管理、数据转换器、接口、时钟及低功耗射频解决

方案。该电子新闻月刊将确保您获悉最新的产品供货、价格信息，并提供至 TI 其他领域的链接。

现在就订阅：

www.ti.com.cn/analogconnection

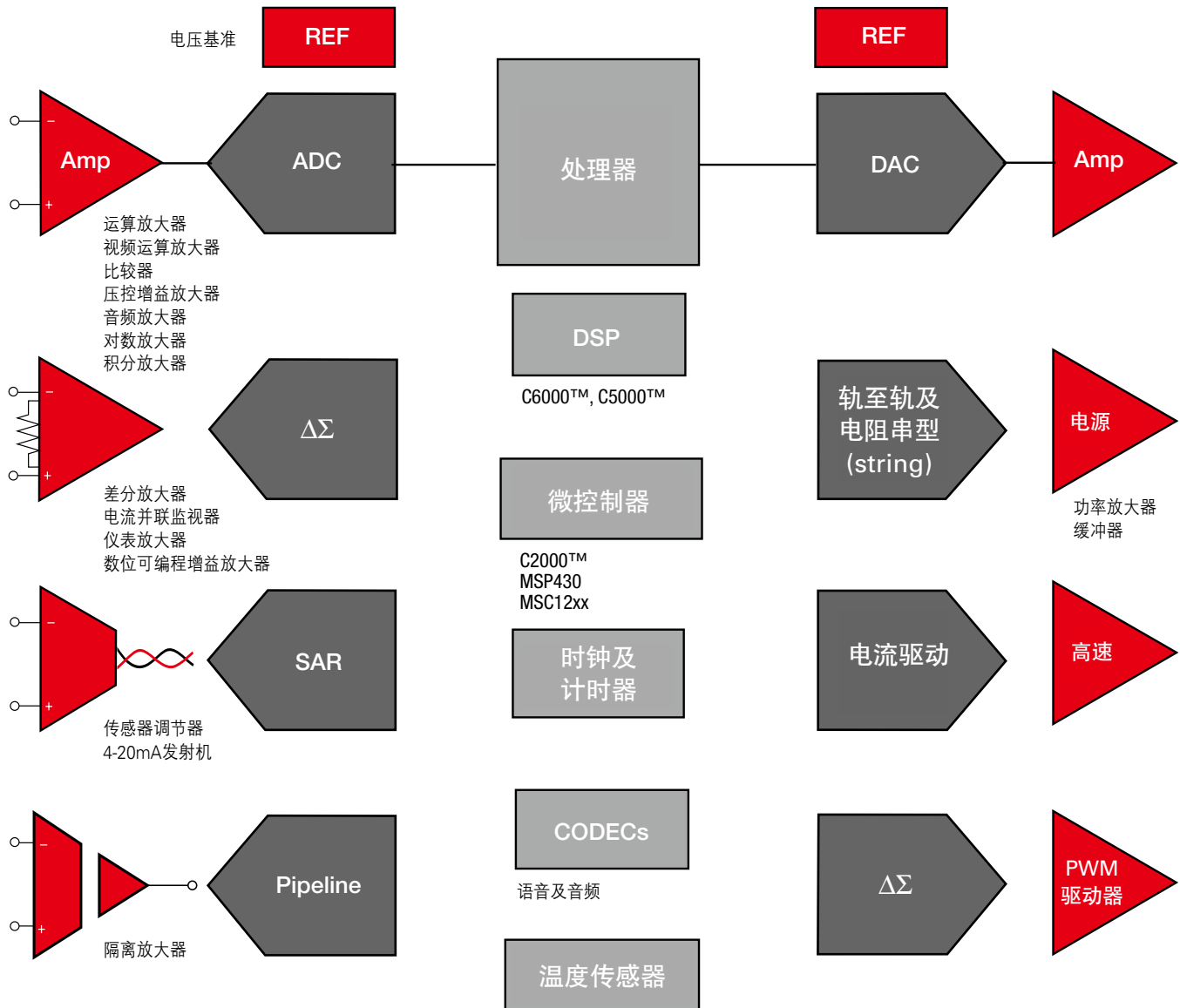
TI 提供了全面的高性能模拟产品组合，从放大器及数据转换器直至电源管理及接口产品。不管您所需的是更快的速度、更高的精密度、更低的功耗还是更小型的尺寸，TI 均具有相应的模拟 IC 以使您的设计与众不同。这就是“**高性能模拟 >> 您的成功之道™**”。



源自 TI 高性能模拟特色产品

ADS5281:	带串行化 LVDS 接口的 8 通道、12 位、50 MSPS 低功耗 ADC
TAS5706:	带均衡(EQ)及动态范围控制(DRC)的 20 W 立体声数字音频功率放大器
AFE5805:	针对超声波应用的全集成 8 通道模拟前端，0.85 nV/ $\sqrt{\text{Hz}}$ 、12 位、122 mW
CC2480:	Z-Accel™ 2.4 GHz ZigBee 处理器
TPS2358:	双插槽 ATCA AdvancedMC™ 控制器
HVS882:	针对工业数字化输入的 8 通道、宽范围 (10 V 至 34 V) 数字输入串行化器
INA333:	低功耗(50 μ A)、零漂移、轨至轨输出仪表放大器
TPS62600:	6 MHz、500 mA DC/DC 降压转换器，总解决方案尺寸小于 13mm ²
DAC9881:	最高精度的 DAC，具有 18 位单调性能

电源管理



接口

LVDS/
MLVDSRS-485/
422

CAN

串行千兆位
收发机

USB

低功耗射频

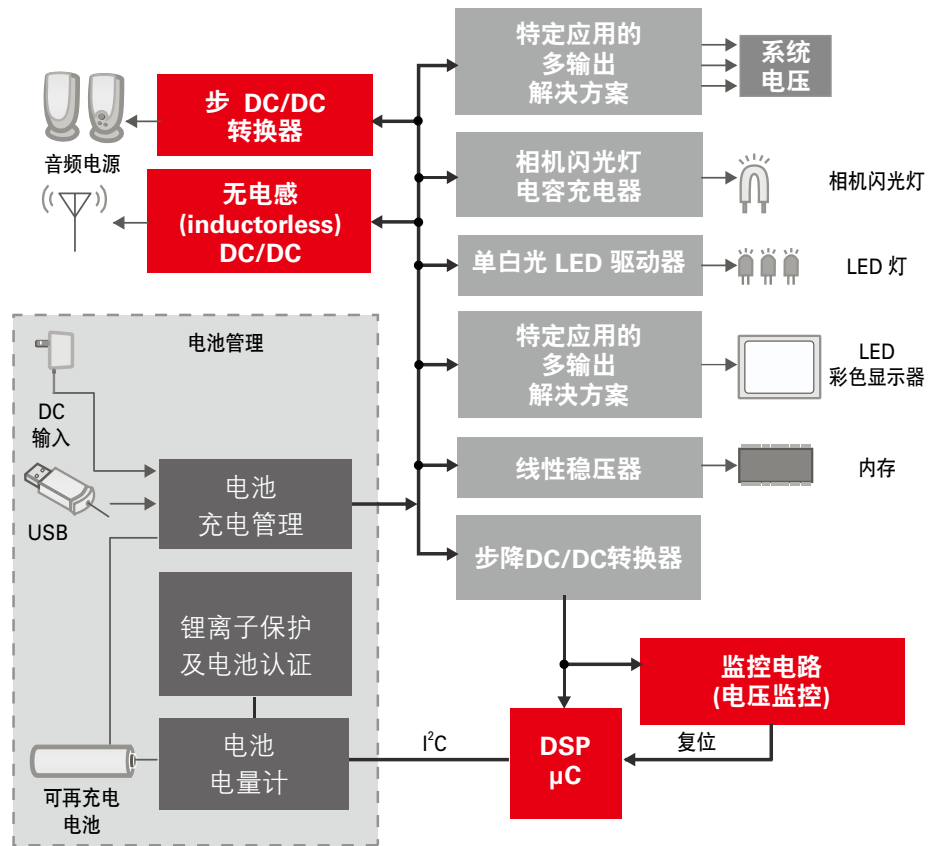
PCI

1394

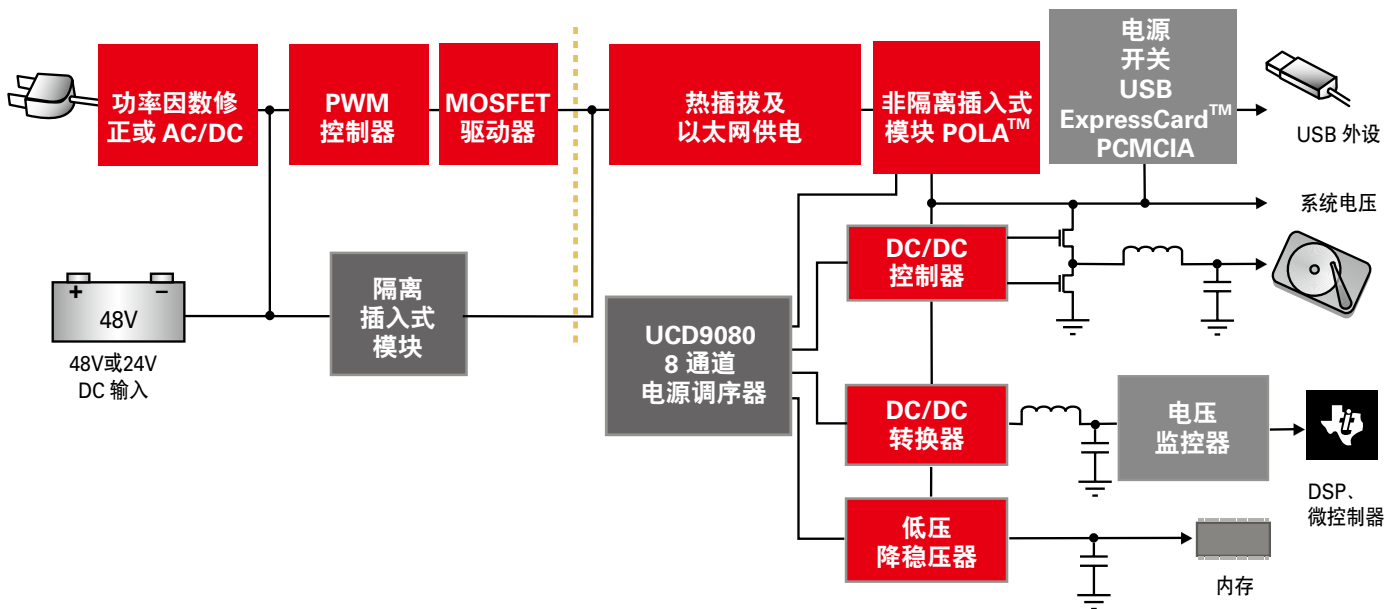
UART

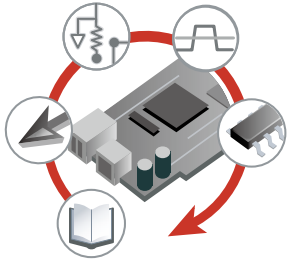
GTLP/VME

便携式电源解决方案



线路供电解决方案





德州仪器

模拟 eLAB™ 设计中心

如需帮助，您可以：

联系模拟技术支持

查看模拟知识基础 (FAQ)

联系 TI 的全球销售及支持办事处

联系分销商

联系销售代表

查看 eLab 设计中心演示

www.ti.com.cn/analogelab

学习	选择	设计	仿真	样片
<ul style="list-style-type: none"> ▶ 在线培训 ▶ 模拟 eLab™ 视频播客 ▶ 所有的网络播客 ▶ 研讨会 ▶ 年会 ▶ TI 开发商大会 ▶ 为期 1 天的讨论会 ▶ 为期多日的讨论会 ▶ 应用手册/技术文档 ▶ 公司发表的论著 	<ul style="list-style-type: none"> ▶ 时钟及计时器速查 ▶ 接口速查 ▶ 电源管理速查 <ul style="list-style-type: none"> - 电源速查 - 揭示 T2 模块将如何降低输出电容 ▶ 电池充电器速查 ▶ 数据转换器速查 <ul style="list-style-type: none"> - 模数转换器 - 数模转换器 ▶ 音频速查 ▶ RF/IF 元件速查 ▶ 转换器件选择工具 ▶ 选择及解决方案指南 ▶ 终端器件解决方案 ▶ 参数查询 ▶ 同类产品交叉参考查询 	<ul style="list-style-type: none"> ▶ TI 的 Pro 系列 <ul style="list-style-type: none"> - SwitcherPro™ 设计软件 - 马上在线使用 - 学习如何使用 SwitcherPro 创新设计 - ADCPro™ 评估软件 - MDACBufferPro™ 设计软件 - FilterPro™ 设计软件 ▶ 参考设计 ▶ 计算及其他用途 ▶ 硬件设计工具及软件 ▶ 质量、可靠性及无铅 (Pb-Free) ▶ RoHS (有害物质禁用) 条款及交付计划表 ▶ 封装信息 	<ul style="list-style-type: none"> ▶ TINA-TI™ 强大、易于使用的电路仿真程序，基于 SPICE 引擎 ▶ 完备的 SPICE 模块库 ▶ IBIS 及 BSDL 模块库 	<ul style="list-style-type: none"> ▶ 定价及供货 ▶ 索取样片 ▶ TI eStore <ul style="list-style-type: none"> - 浏览评估板 ▶ TI 全球销售及支持办事处 ▶ 分销商 ▶ 销售代表
学习	选择	设计	仿真	样片

通过在线培训、模拟 eLab 网络播客、研讨会、年会及讨论会，TI 专家可帮助您解决实际模拟器件难题。

完善的查询工具，通过数字参数查询缩小选择范围，为产品选择提供指导方法。

参考设计、计算应用及电源设计工具，并包括 TI 基于 web 的 Pro 系列软件工具。

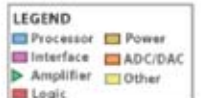
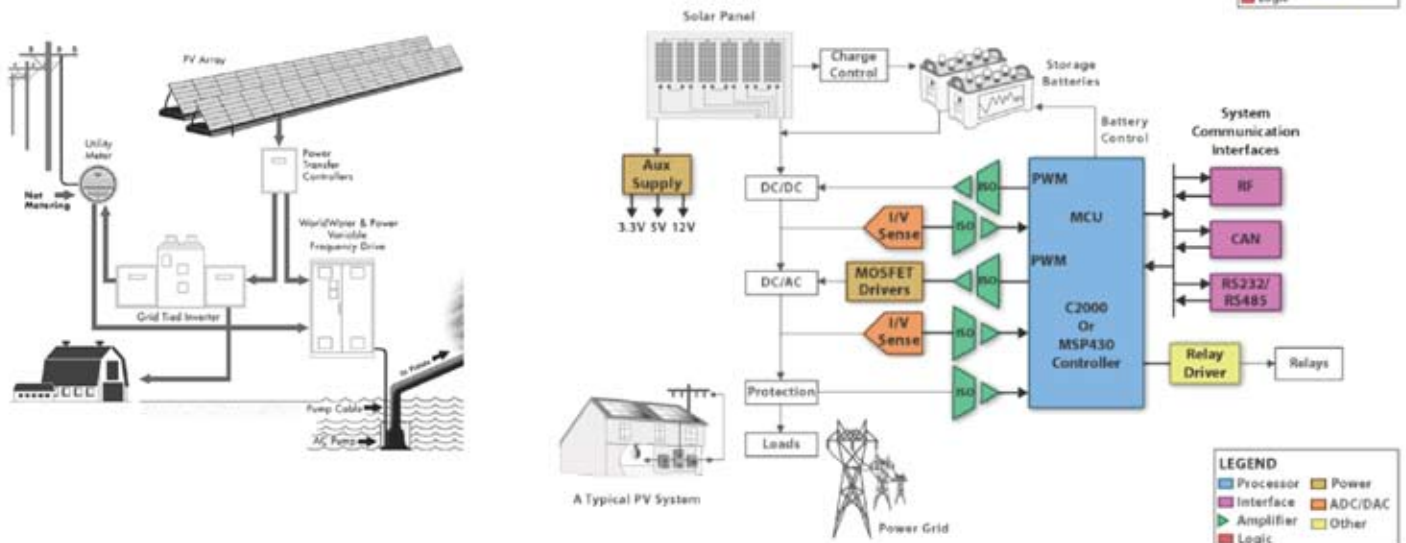
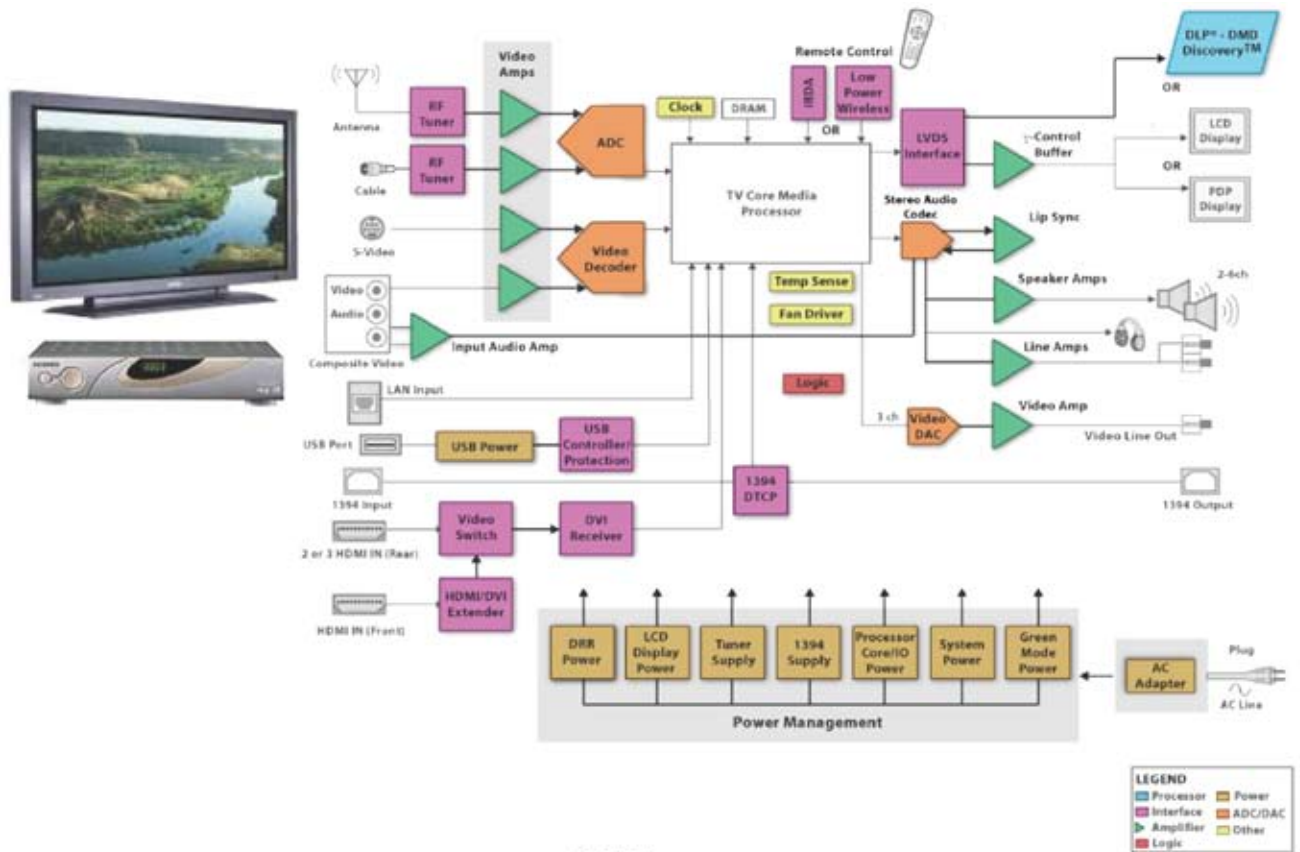
快速、基于 web 的电源仿真，具有大量经验认证的 TI 模块选集，通过强大、友好的 TINA-TI 原理图编辑器及 SPICE 仿真实现混合信号电路分析 (DC、AC、噪声瞬变及傅立叶分析)。

预定样片及评估板。

TI 将使您的设计更为轻松:

- 终端设备解决方案指南、系统方框图、应用手册、设计软件、仿真工具及评估板
- 应用工程支持
- 模拟、嵌入式处理及逻辑器件，针对于您的设计需求，贯穿整个的信号链路

如需获取系统方框图、应用手册及更多推荐产品，敬请访问 www.ti.com.cn/analog 并选择您所感兴趣的应用领域。



样片及品质信息

免费样片索取

您是否正没日没夜的忙于工作而又急需一块免费的 TI 产品样片？那就请立刻登录 TI 样片中心，马上申请吧！

数千种器件，极短的递送时间，高效的反馈速度：

- 8000多种器件及各种封装类型任君选择
- 一周 7*24 小时网上随时申请
- 两个工作日内得到反馈
- 已经有成千上万的客户通过申请样片，优质高效地完成了产品设计。

立即注册 **my.TI** 会员，申请免费样片，只需短短几天，样片将直接寄到您所指定的地址。

<http://www.ti.com.cn/freesample>

电话支持——如果您需要帮助如何选择样片器件，敬请致电中国产品信息中心 **800-820-8682** 或访问

www.ti.com.cn/support

品质保证

持续不断的专注于品质及可靠性是 TI 对客户承诺的一部分。1995 年，TI 的半导体品质系统计划开始实施。该全面的品质系统的使用可满足并超越全球客户及业界的需求。

TI 深情促进业界标准的重要性，并一直致力于美国 (U.S) 及国际性自发标准的调整。作为活跃于诸多全球性的业界协会的一员，以及 TI 对环境保护负有强烈的使命感，TI 引领其无铅 (lead[Pb]-free) 计划，并逐渐成为了该方向的领导者。该计划始于上世纪 80 年代，旨在寻求产品的可替代原料，时至今日，绝大多数的 TI 产品均可提供无铅及绿色 (Green) 的封装。

如果您对“无铅”抱有任何疑问，敬请访问：

www.ti.com.cn/quality



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Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

相关产品链接:

- DSP - 数字信号处理器 <http://www.ti.com.cn/dsp>
- 电源管理 <http://www.ti.com.cn/power>
- 放大器和线性器件 <http://www.ti.com.cn/amplifiers>
- 接口 <http://www.ti.com.cn/interface>
- 模拟开关和多路复用器 <http://www.ti.com.cn/analogswitches>
- 逻辑 <http://www.ti.com.cn/logic>
- RF/AF 和 ZigBee® 解决方案 www.ti.com.cn/radiofreq
- RFID 系统 <http://www.ti.com.cn/rfid>
- 数据转换器 <http://www.ti.com.cn/dataconverters>
- 时钟和计时器 <http://www.ti.com.cn/clockandtimers>
- 标准线性器件 <http://www.ti.com.cn/standardlinearede>
- 温度传感器和监控器 <http://www.ti.com.cn/temperaturesensors>
- 微控制器 (MCU) <http://www.ti.com.cn/microcontrollers>

相关应用链接:

- 安防应用 <http://www.ti.com.cn/security>
- 工业应用 <http://www.ti.com.cn/industrial>
- 计算机及周边 <http://www.ti.com.cn/computer>
- 宽带网络 <http://www.ti.com.cn/broadband>
- 汽车电子 <http://www.ti.com.cn/automotive>
- 视频和影像 <http://www.ti.com.cn/video>
- 数字音频 <http://www.ti.com.cn/audio>
- 通信与电信 <http://www.ti.com.cn/telecom>
- 无线通信 <http://www.ti.com.cn/wireless>
- 消费电子 <http://www.ti.com.cn/consumer>
- 医疗电子 <http://www.ti.com.cn/medical>