

领慧立芯 产品选型手册

Product Selection Guide

泛工业 | 健康与医疗 | 光通信 | 定制化

公司介绍

COMPANY PROFILE



苏州领慧立芯科技有限公司2020年10月成立于苏州工业园区。公司先后获评姑苏领军人才企业、江苏省双创企业、国家科技万人。现有全职员工百余人，研发人员占比超七成。核心团队来自国内外头部企业，均具有十五年以上芯片研发与量产实战经验。公司聚焦工业与医疗级高精密信号链芯片设计和研发，硅测封全国产化，产品核心性能指标优异。

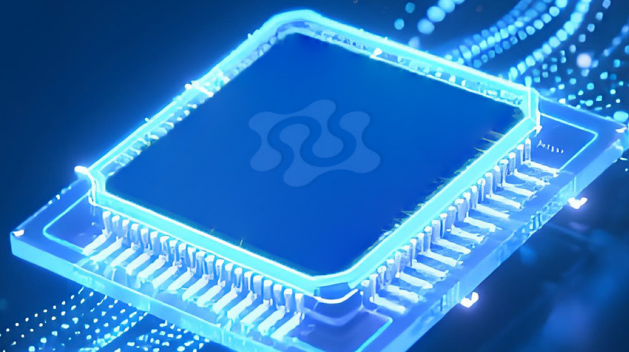
产品广泛应用于AI光通讯、工业控制及仪器仪表、电力、新能源、医疗仪器等领域。成立至今，累计发货近亿颗精密信号链芯片，已斩获授权发明专利近百项，技术实力与市场口碑稳步提升。

愿景： 成为一家百年传奇的半导体公司

使命： 关注客户的需求和痛点，持续创新为客户创造最大的价值

应用领域

APPLICATION AREAS



泛工业

温度/压力变送器解决方案

LHA7668B: 8通道 集成PGA 集成恒流源 24bit高精度 Σ - Δ ADC
 LHA7220: 集成PGA和基准源, 4通道, 4kSPS, 低功耗, 24位ADC
 LHA7914/18/24/28: 低成本16/24bit, I2C/SPI接口, 4通道 Σ - Δ ADC
 LHE2700: 集成精密振荡器的低功耗HART调制解调器
 LHR40XX: 15ppm/ $^{\circ}$ C max, 30uA max 兼容REF30XX/REF31XX
 LHR34XX: 6ppm/ $^{\circ}$ C max, 60uA max 兼容REF34XX/ADR34XX

PLC/DCS模拟IO模块解决方案

LHA5115: 高压 ± 20 V输入125kSPS 单电源多通道24bit Σ - Δ ADC
 LHA7668B: 8通道 集成PGA 集成恒流源 24bit高精度ADC
 LHA7220: 集成PGA和基准源, 4通道, 4kSPS, 低功耗, 24位ADC
 LHE2700: 集成精密振荡器的低功耗HART调制解调器
 LHR30XX/LHR34XX: 最大温漂3ppm/ $^{\circ}$ C, 6ppm/ $^{\circ}$ C基准源
 LHD5755: 集成动态电源管理的16bit DAC ± 10 V/4~20mA输出

高集成度传感器信号调理SOC解决方案

LH32M0G3: 高性能传感器信号调理SOC (集成ADC DAC MCU)

超低功耗电化学气体传感器解决方案

LHE3302: 高集成电化学气体传感器模拟前端

高精度多维力测量系统解决方案

LHA7532/4: 24bit 带有超低噪声PGA的2/4通道 Σ - Δ ADC

高精度单维力测量系统解决方案

LHA7530: 集成高精度低噪声PGA的24bit Σ - Δ ADC
 LHA9954/LHA7732: 32bit高精度128kSPS Σ - Δ ADC
 LH32M0G3: 高性能传感器信号调理SOC (集成ADC DAC MCU)

振动监测/音频分析解决方案

LHA5274/8: 4/8通道同步采样, 24bit Σ - Δ ADC, 集成宽带滤波器, 256kSPS采样率, 优异的交流性能
 LHR30XX: 3ppm/ $^{\circ}$ C max, 兼容REF50XX/ADR45XX
 LHR34XX: 6ppm/ $^{\circ}$ C max, 60uA max 兼容REF34XX/ADR34XX
 LHAMP1528: 超低噪声、RRIO、零漂精密放大器

三相多功能关口电能表解决方案

LHA5274/8: 4/8通道同步采样, 24bit Σ - Δ ADC, 集成宽带滤波器, 256kSPS采样率, 优异的交流性能
 LHA7878: 8通道同步采样, 24bit Σ - Δ ADC 优异的交流性能
 LHR30XX: 3ppm/ $^{\circ}$ C max, 兼容REF50XX/ADR45XX
 LHR34XX: 6ppm/ $^{\circ}$ C max, 60uA max 兼容REF34XX/ADR34XX
 LHAMP1528: 超低噪声、RRIO、零漂精密放大器

电池化成分容解决方案

LHA7879-2/4: 2/4通道同步采样, 支持单电源正负压输入, 24bit Σ - Δ ADC
 LHE5400: 四电阻匹配网络
 LHAMP188/9: 精密零漂移、轨到轨输出 高压仪表放大器
 LHA7878: 24位128kSPS 4,6,8通道同步采样ADC
 LHA5658-2/8: 250kSPS 高精度 24位 Σ - Δ ADC
 LHA7914/24: 带PGA 150uA 小封装, 24位 1kSPS I²C
 LHR30XX: 3ppm/ $^{\circ}$ C max, 兼容REF50XX/ADR45XX
 LHR34XX: 6ppm/ $^{\circ}$ C max, 60uA max

光通信

400G/800G/1.6T高速光模块

LHE5322: 新一代硅光控制应用的高集成模拟前端
 LHE5312: 硅光AFE, 12路12位VDAC, 4路200mA IDAC
 LHE5504: 高精度 集成EML控制AFE
 LH32M3X: 集成12bit ADC Cortex M3 256kB Flash 32kB SRAM MCU
 LHP2834: 1.5A 小尺寸 TEC控制器
 LHP4089: 5.5V 12A 集成电流监测和低导通电阻的负载开关
 LHC2031: 低功耗 单电源 WLCSP比较器+精密基准IC
 LH9306: I²C Voltage-Level Translator
 LHR4025: 低功耗、低噪声、低温漂、高精度电压基准

EDFA

LHA8841: SOT23封装小尺寸 2.5MSPS 14bit SAR ADC
 LHP2834: 1.5A 小尺寸 TEC控制器

相干模块

LHA8959: 16bit 8通道 500kSPS SAR ADC
 LHP2834: 1.5A 小尺寸 TEC控制器
 LH32M3X: 集成16bit ADC Cortex M3 256kB Flash 32kB SRAM MCU

医疗与健康

心电信号采集

LH001-91: 单导联全集成心电信号采集模拟前端
 LHE7908: 8通道12导联心电信号采集模拟前端
 LHA7878: 8通道同步采样, 24bit Σ - Δ ADC 优异的交流性能

脑电信号采集

LH001-99: 单通道 脑电信号采集模拟前端
 LHE7909: 8通道 同步采样心电信号采集模拟前端

超声多普勒采集

LHA8951: 18bit 1MSPS SAR ADC

监护仪/体外诊断

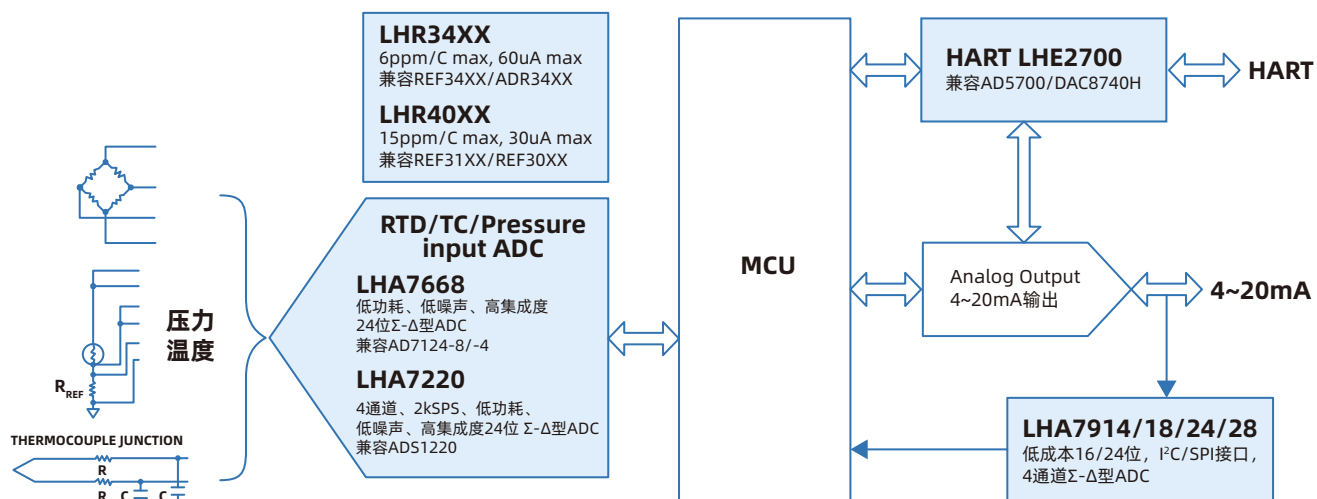
LHE7908: 8通道 12导联心电信号采集模拟前端
 LHA7668: 8通道 集成PGA 24bit高精度ADC
 LHR30XX/LHR40XX: 最大温漂3ppm/ $^{\circ}$ C 基准源
 LHA7878: 8通道同步采样, 24bit Σ - Δ ADC 优异的交流性能
 LHA8949: 16bit 8通道 250kSPS SAR ADC
 LHA8959: 16bit 8通道 500kSPS SAR ADC

连续血糖监测CGM

LHE3302: 超低功耗可编程模拟前端(AFE)

解决方案 SOLUTION

温度/压力变送器解决方案



温度/压力变送器、流量计等仪表(测量压力、温度)

LHA7668: 兼容AD7124, 可替换ADS1248/ADS124S08/AD7799

LHR34xx: 兼容REF34xx/ADR34xx/MAX6071

LHA7220: 兼容ADS1220

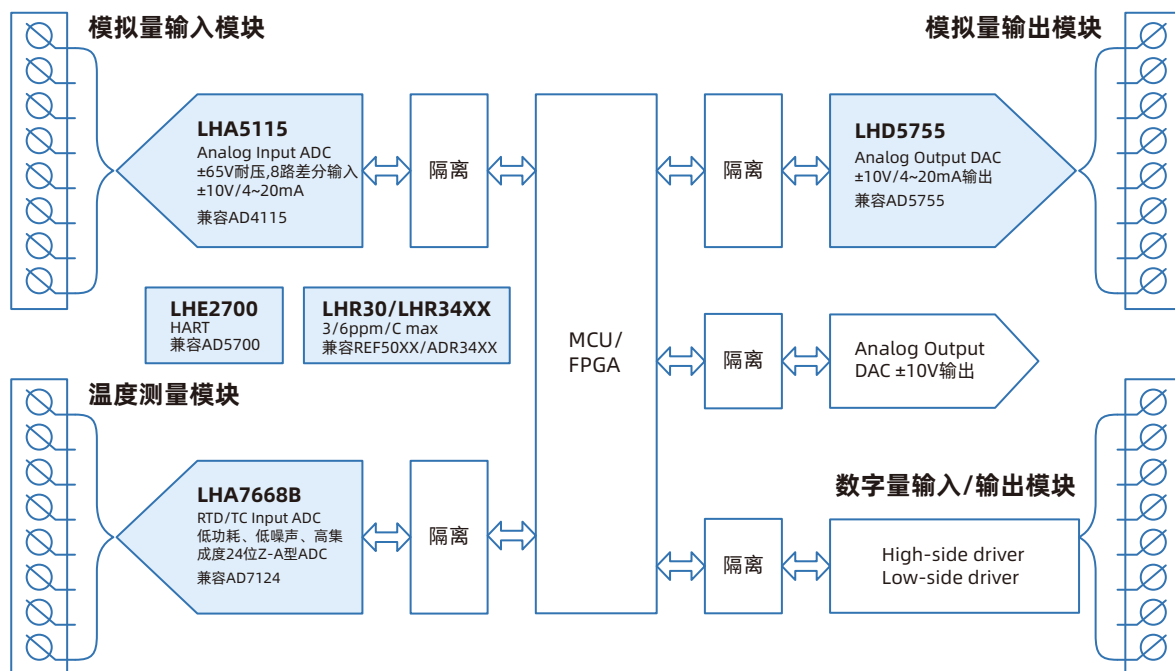
LHA7914/18/24/28: 兼容ADS1115/ADS1118

LHR40xx: 兼容REF31xx, REF30xx

4-20mA: 规划AD5421/AD421.XTR116/117

HART: 兼容AD5700/DAC8740H

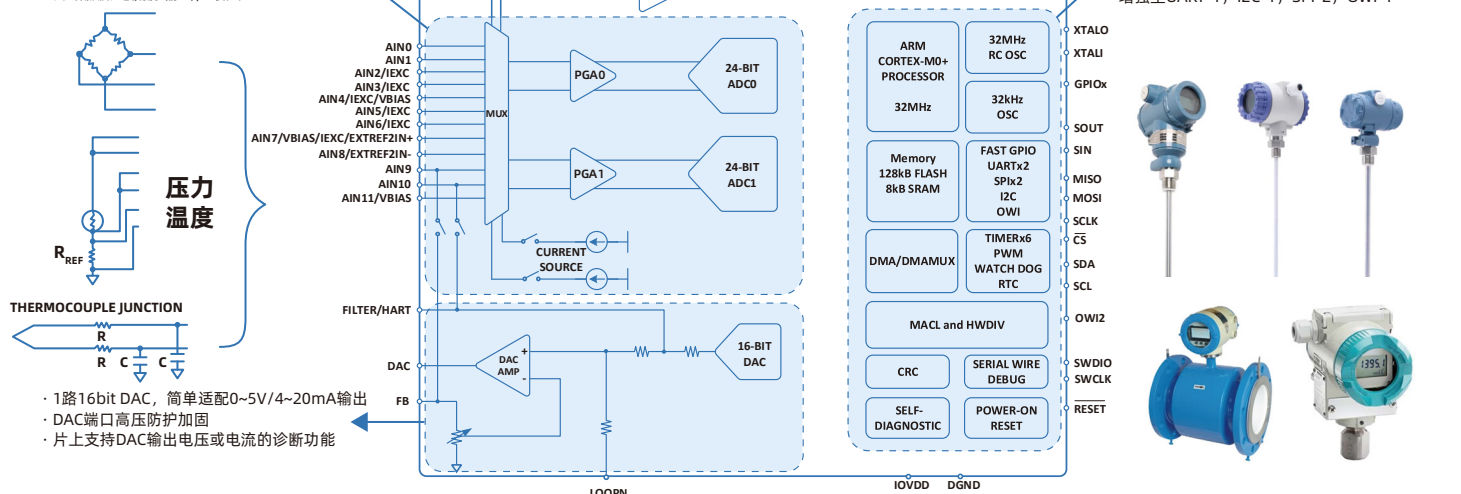
PLC/DCS模拟IO模块解决方案



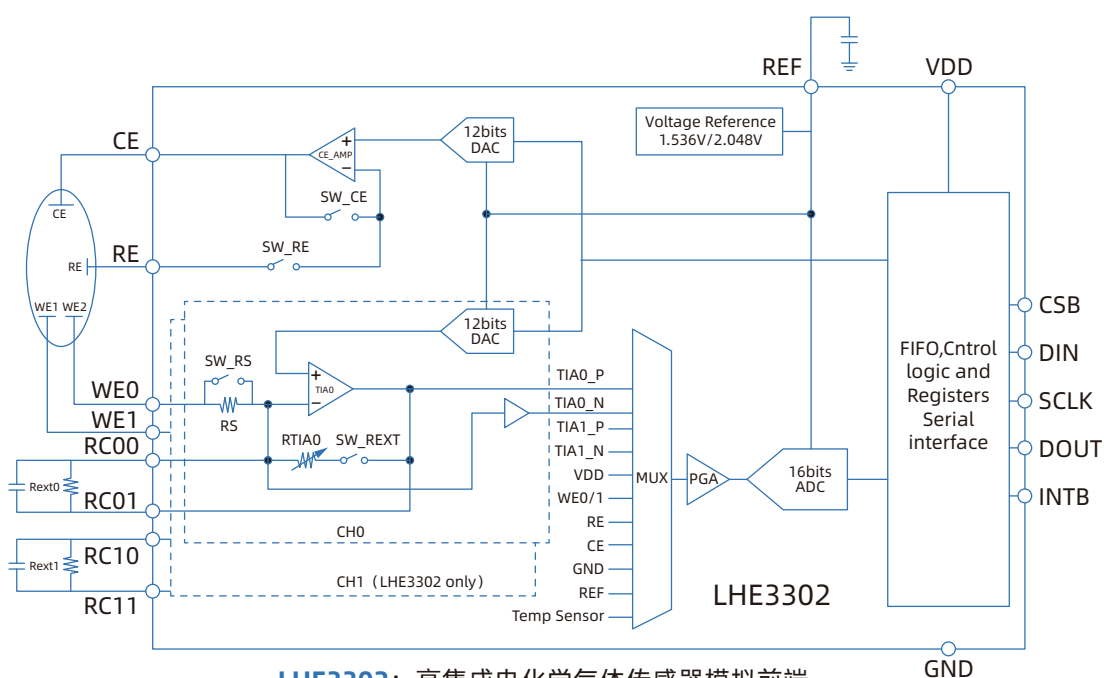
高集成度传感器信号调理SOC解决方案

LH32M0G3xx

- 2路24bit Sigma-delta (Σ - Δ)模数转换器(ADC), 2.5Hz至7.812KHz输出速率
- 内置温度传感器, 内置丰富的诊断功能
- 两路激励电流源输出, 最大1mA



超低功耗电化学气体传感器解决方案



LHE3302: 高集成电化学气体传感器模拟前端
两路12bit DAC, 1路16bit ADC, $\pm 0.5^\circ\text{C}$ 内置温度传感器



振动监测/音频分析解决方案



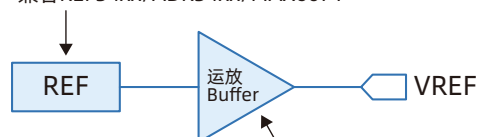
IEPE传感器
音频信号20Hz~20kHz

LHR30XX

- SOP8低温漂基准源3ppm/C max 温漂

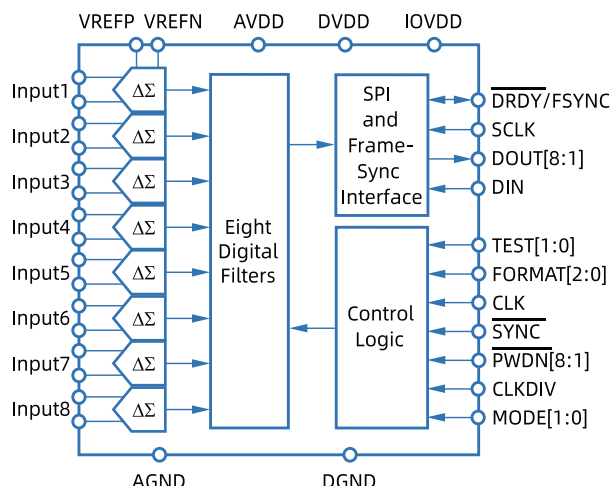
LHR34XX

- SOT23-6精密基准源6ppm/C max 温漂
- 兼容REF34xx/ADR34xx/MAX6071



LHAMP1528

- 超低噪声、RRIO、零漂精密放大器
- 带“*”为研发中产品
- 兼容ADA4528



LHA5274/5278

- 4/8通道同步采样，24bit Σ - Δ ADC，集成宽带滤波器，优异的交流性能
- 支持256kSPS采样率，低功耗
- 兼容ADS1278



三相多功能关口电能表解决方案



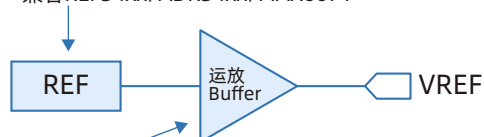
互感器

LHR30XX

- SOP8低温漂基准源3ppm/C max 温漂
- 兼容REF50xx/ADR45xx

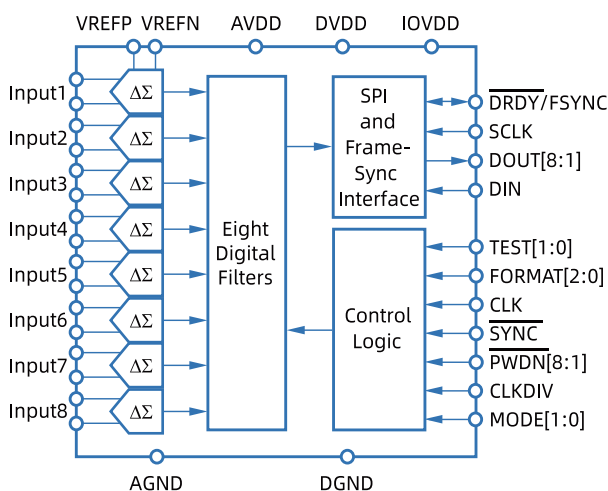
LHR34XX

- SOT23-6精密基准源6ppm/C max 温漂
- 兼容REF34xx/ADR34xx/MAX6071



LHAMP1528

- 超低噪声、RRIO、零漂精密放大器
- 兼容ADA4528



LHA5274/5278

- 4/8通道同步采样，24bit Σ - Δ ADC，集成宽带滤波器，优异的交流性能
- 支持256kSPS采样率，低功耗
- 兼容ADS1278

LHA7878H

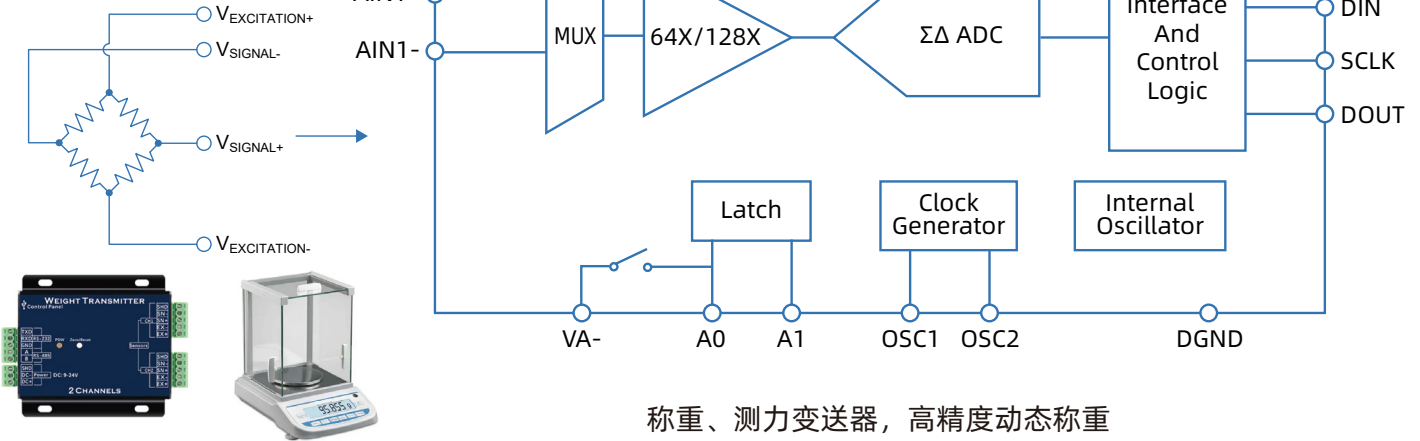
- 8通道同步采样，24bit Σ - Δ ADC，优异的交流性能
- 支持128kSPS采样率，低功耗
- 兼容ADS131E08



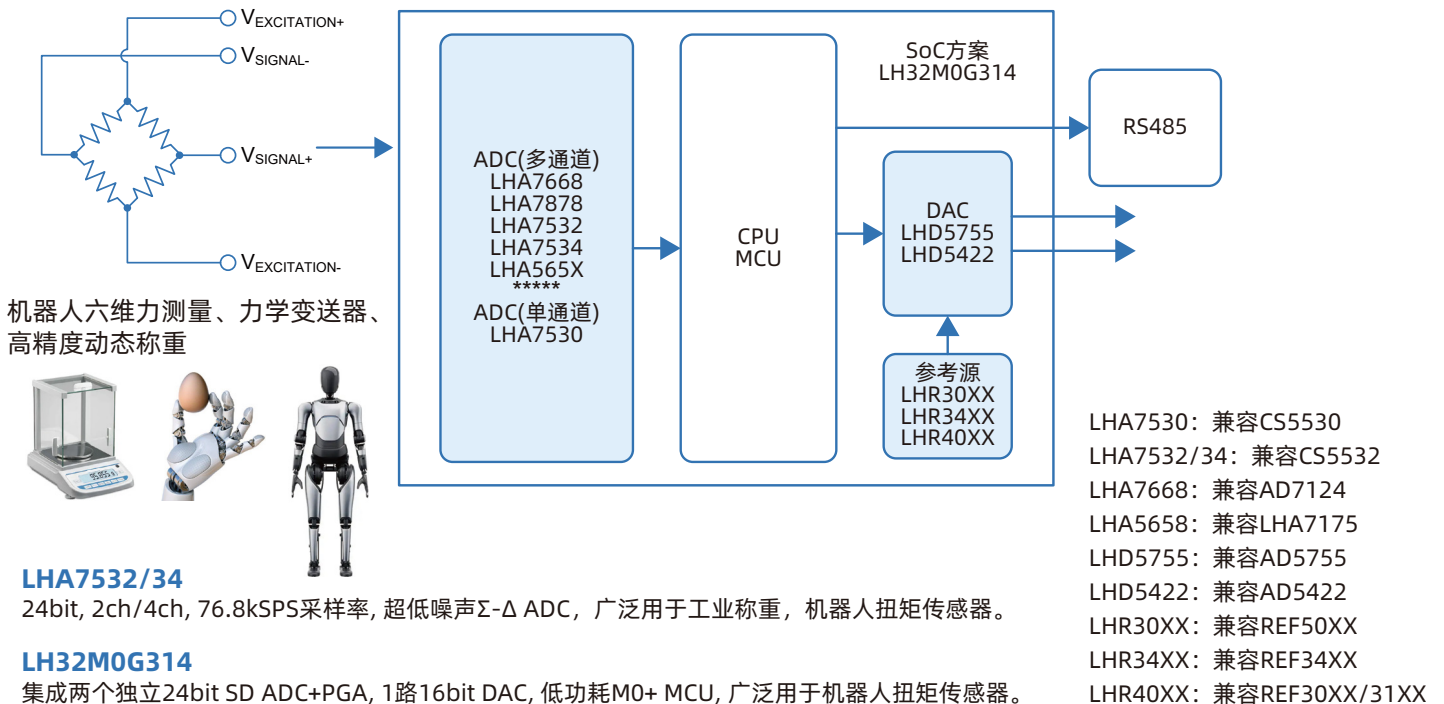
高精度单维力测量系统解决方案

LHA7530

- 24bit, 2ch, 3.84kSPS采样率, Σ - Δ 型ADC, 低输入噪声: 11nVrms@5SPS, G=128
- 极高的直流性能和低温漂
- 集成片上温度传感器、内部振荡器
- 兼容: CS5530
- 对标: AD7190



高精度多维力测量系统解决方案



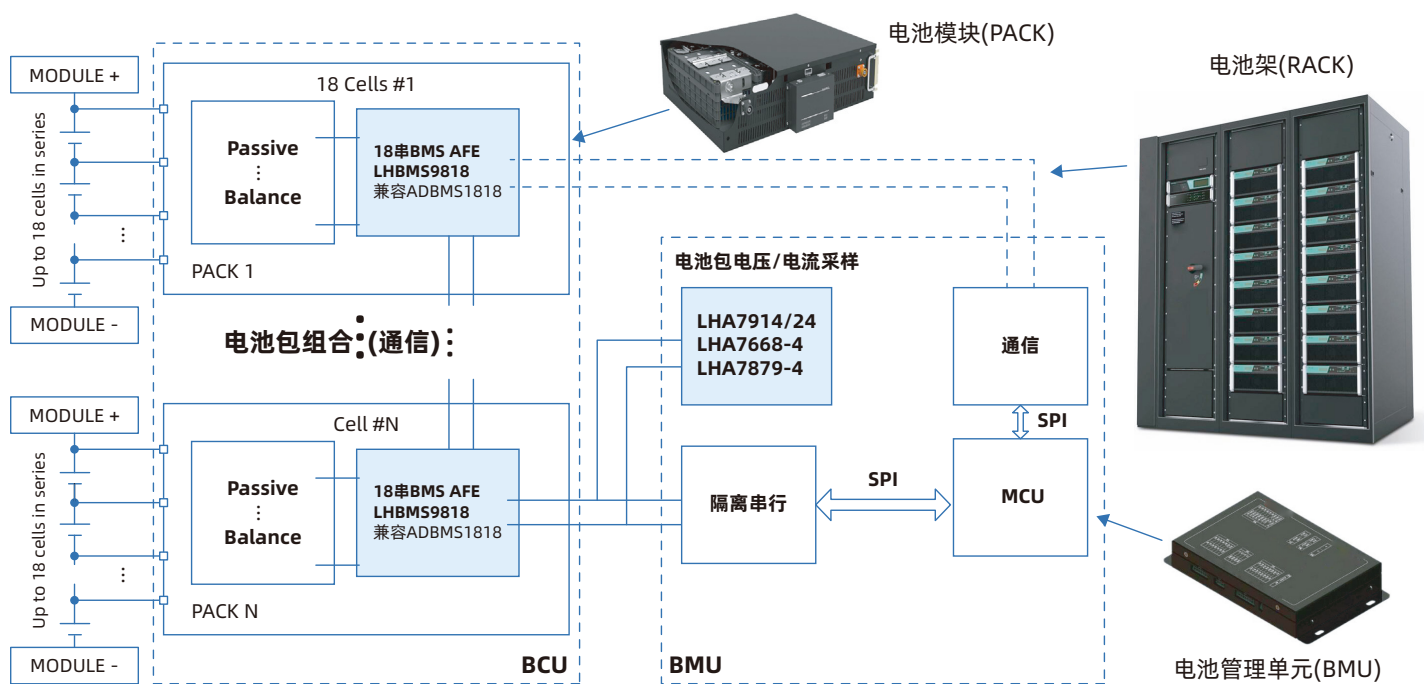
LHA7532/34

24bit, 2ch/4ch, 76.8kSPS采样率, 超低噪声 Σ - Δ ADC, 广泛用于工业称重, 机器人扭矩传感器。

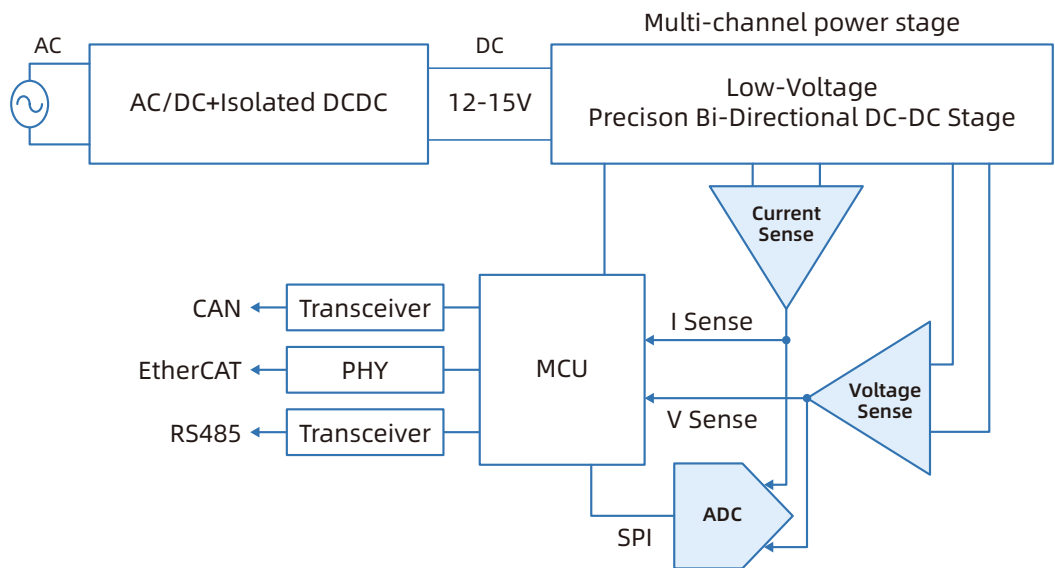
LH32M0G314

集成两个独立24bit SD ADC+PGA, 1路16bit DAC, 低功耗M0+ MCU, 广泛用于机器人扭矩传感器。

储能电池管理BMS解决方案

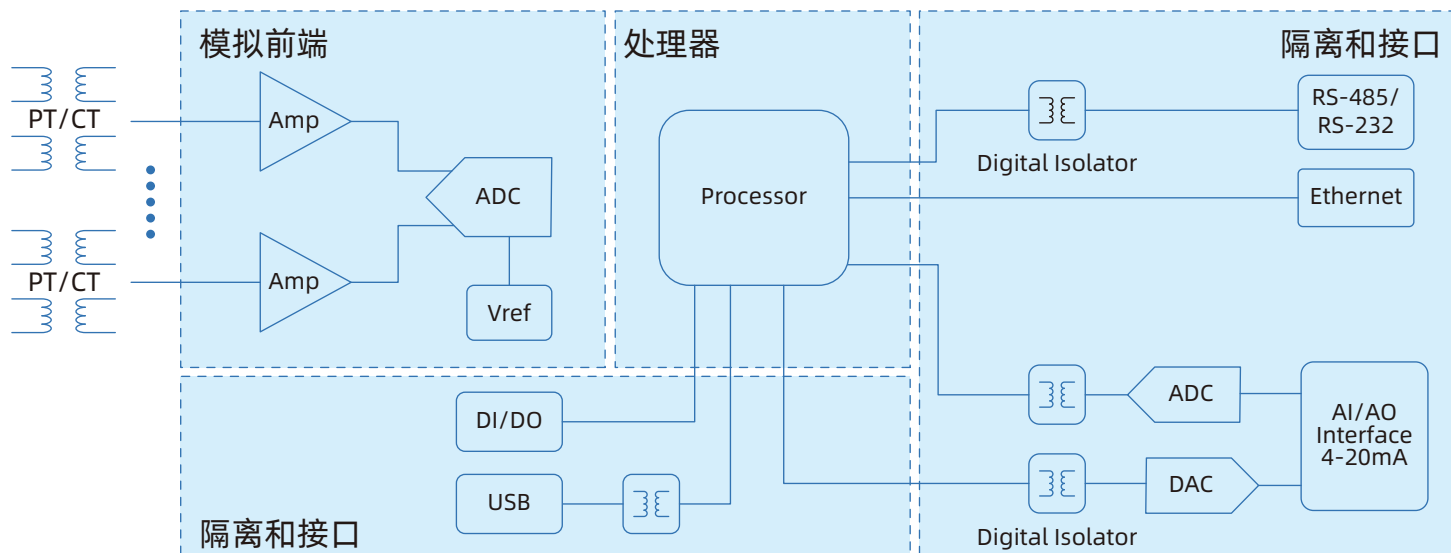


电池化成分容解决方案



功能	领慧立芯产品及方案	兼容型号
Voltage Sense	LHE5400	LT5400
CurrentSense	LHAMP188/189	INA188/189
ADC	LHA7878、LHA7879-2/4、LHA5658-2/8、LHA7914/24	ADS131E08、ADS131E02/4、AD7175-2/8、ADS1115
REF	LHR30XX、LHR34XX	REF50XX、ADR45XX

继电保护及配网自动化解决方案



- **LHA6958D**

兼容AD7606
性能比AD7606有提升

- **LHA6916**

兼容AD7616
性能比AD7616有提升

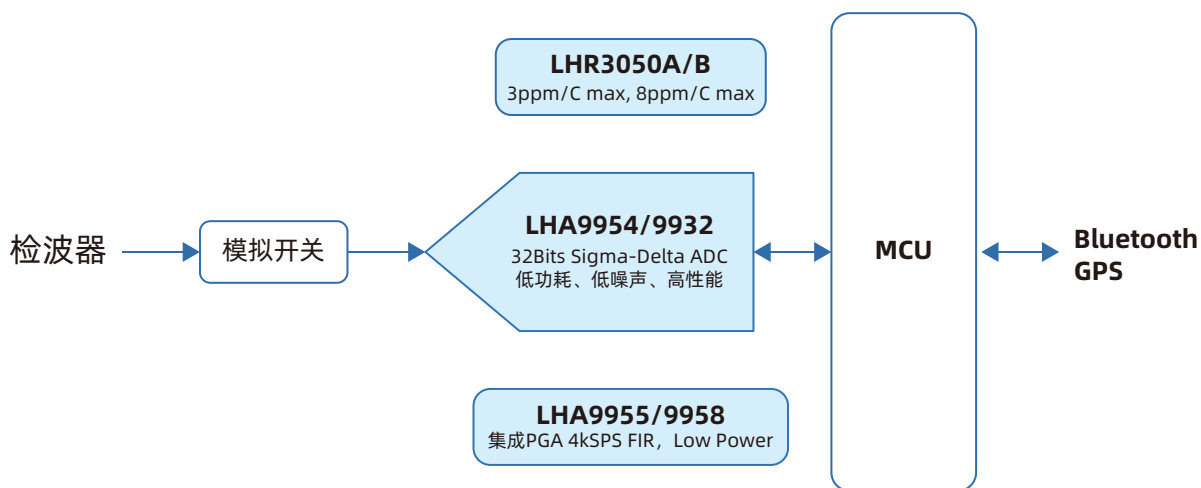
- **LHR3025**

兼容REF5025/ADR4525
最大温漂3ppm/C, 8ppm/C

- **LHAMP188**

兼容INA188/189

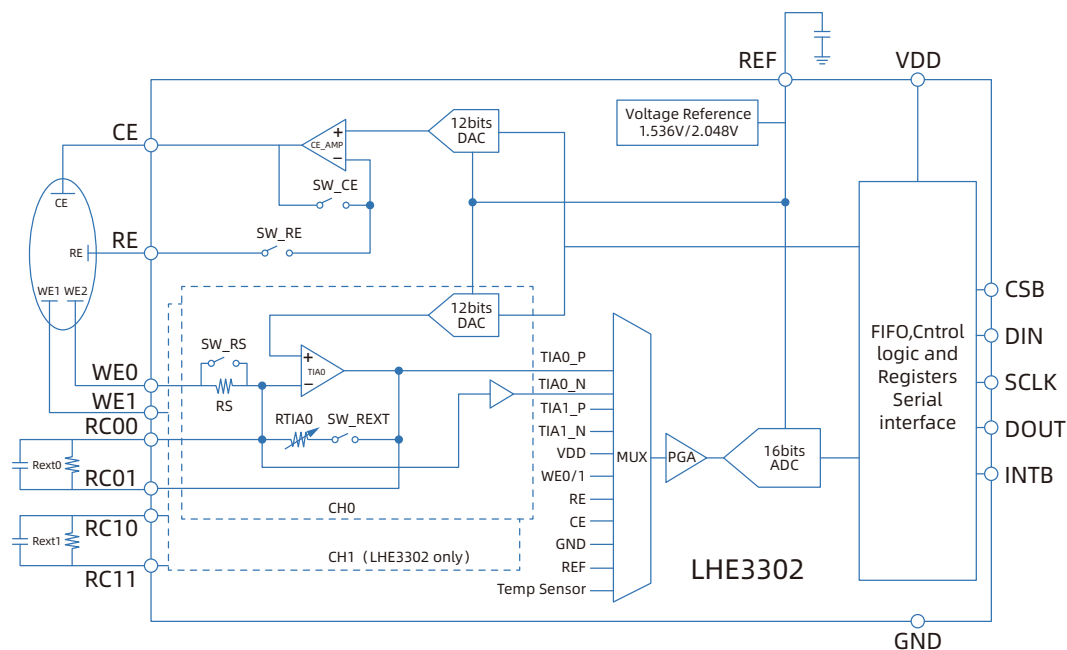
能源勘探与地震监测解决方案



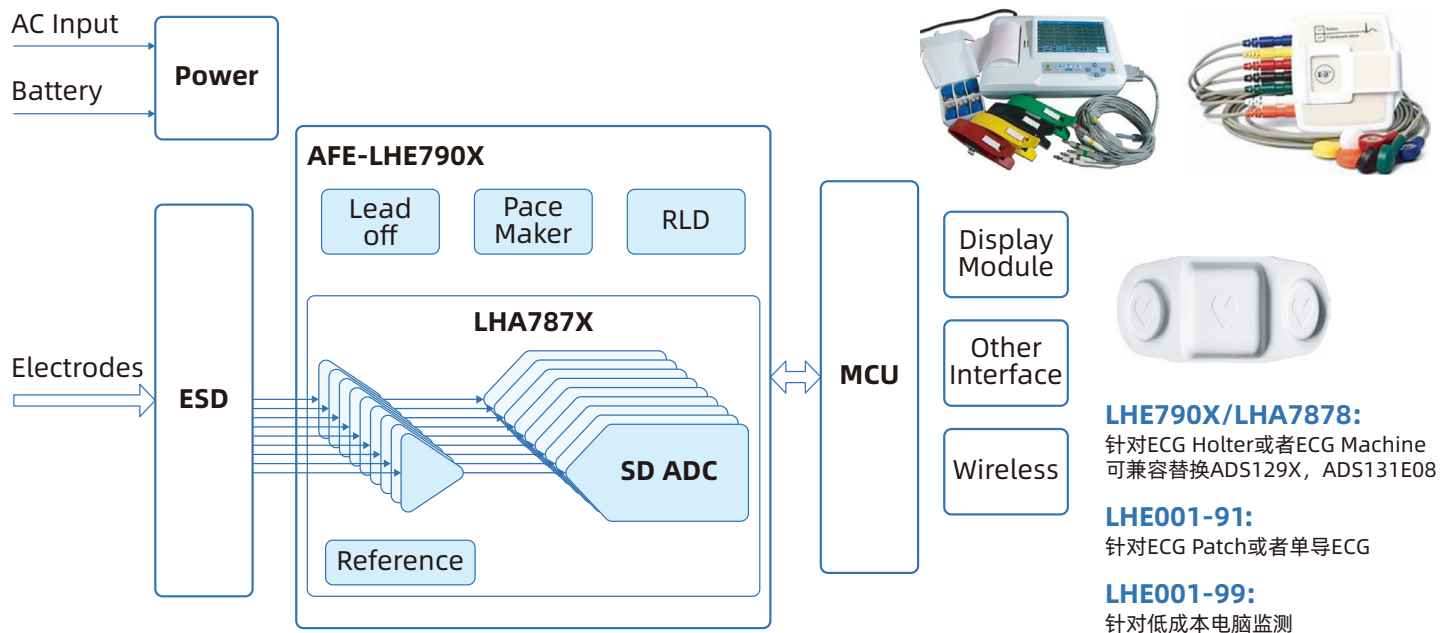
- LHA9954/32量产：兼容ADS1284/83/82
- LHR3050量产：兼容REF5050
- LHR3450量产：兼容REF3450

- LHA9955/9958：对标ADS1285/1288，研发阶段
- DAC：对标DAC1282，规划中

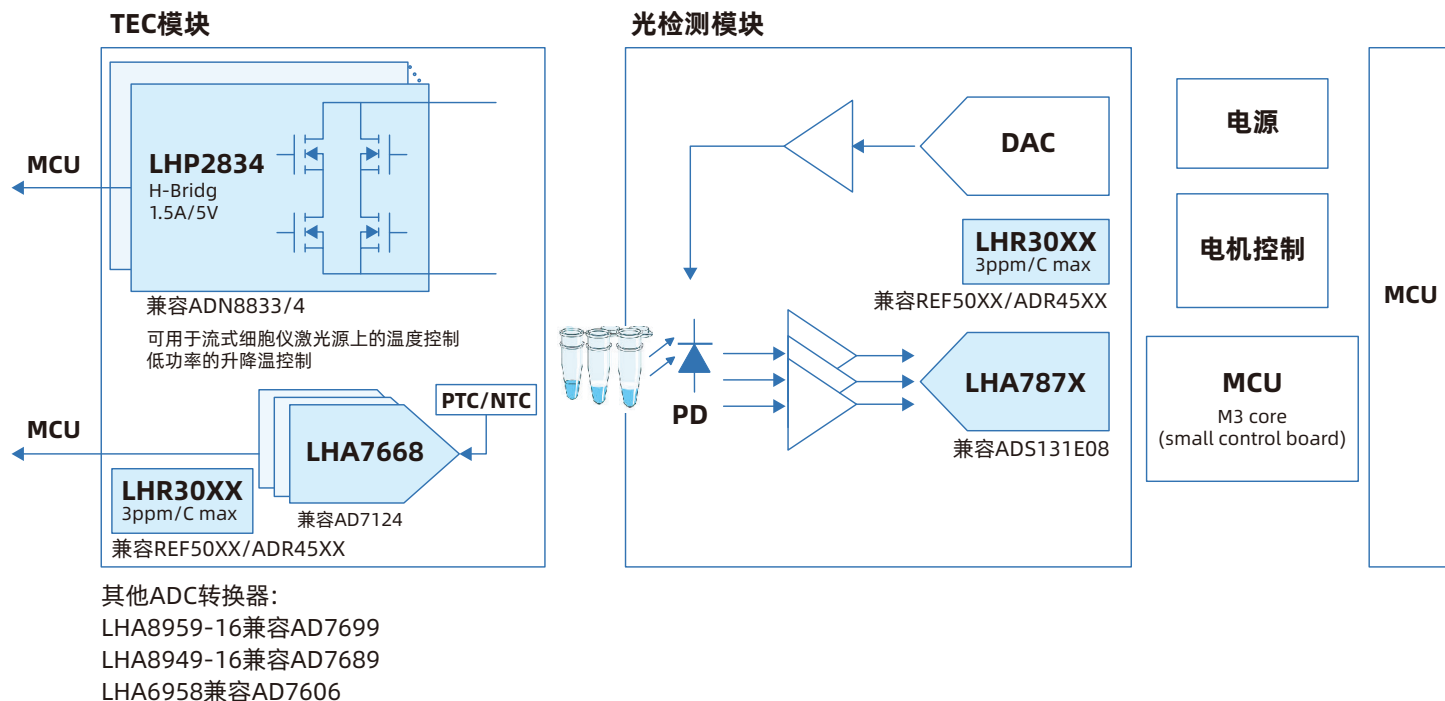
CGM连续血糖监测解决方案



ECG心电/EEG脑电/EMG肌电解决方案



IVD体外诊断解决方案



400G/800G EML 控制系统解决方案

EML AFE LHE5504

4路12bits VDAC, 4路12bits 200mA IDAC,
12路12bits SAR ADC
兼容AMC60804

光模块MCU LH32M3CX

Cortex-M3内核, 双128K Flash, 32KB SRAM,
4路VDAC, 16路SAR ADC, 1Mbps I²C

TEC控制器 LHP2834

P2P ADN8834

比较器LHC2031

集成阈值, 适用OSFP模块
兼容: MAX9039

电压基准LHR40XX

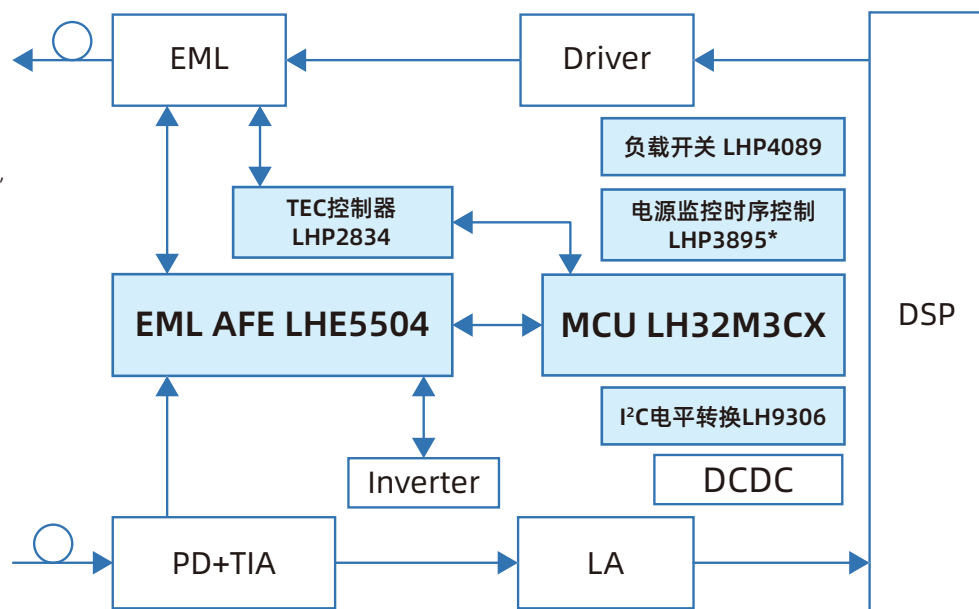
低温漂15ppm/°C max, 初始精度 0.1% max
兼容REF35 WLCSP4 package

负载开关 LHP4089

12A持续电流, 3.4mΩ超低导通阻抗

电源监控时序控制 LHP3895*

I²C电平转换 LH9306



· 带 “*” 为研发中产品

400G/800G 硅光控制系统解决方案

硅光AFE LHE5312

集成12路12bits VDAC/IDAC, 4路12bits 200mA IDAC, 12路可配置多功能IO

光模块MCU LH32M3CX

Cortex-M3内核, 双128K Flash, 32KB SRAM, 4路VDAC, 16路SAR ADC, 1Mbps I²C

比较器LHC2031

集成阈值, 适用OSFP模块
兼容: MAX9039

电压基准LHR40XX

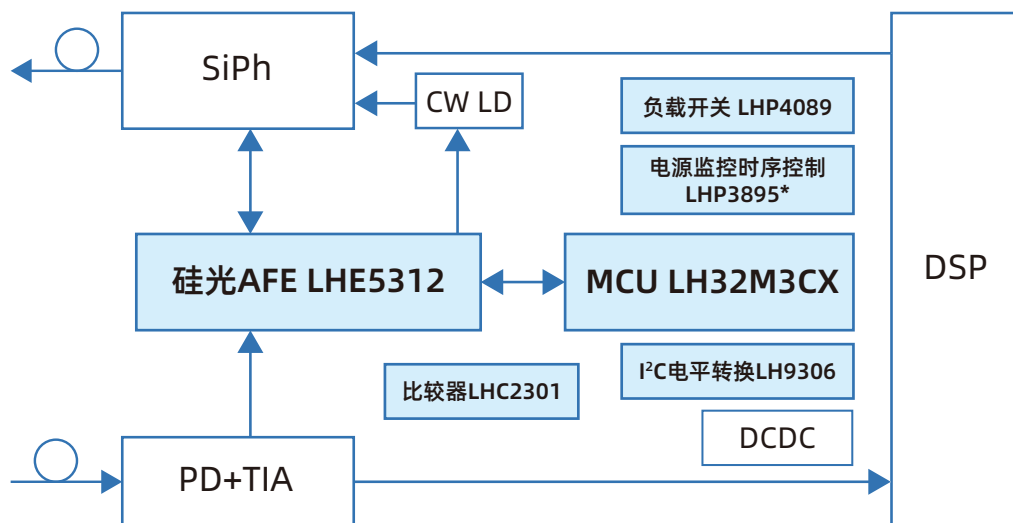
低温漂15ppm/°C max, 初始精度 0.1% max
兼容REF35 WLCSP4 package

负载开关 LHP4089

12A持续电流, 3.4mΩ超低导通阻抗

电源监控时序控制 LHP3895*

I²C电平转换 LH9306



· 带 "*" 为研发中产品

800G/1.6T/3.2T 硅光控制系统解决方案

新一代硅光AFE LHE5322

集成18路12bits VDAC (Heater), 8路12bits IDAC (IBIAS), 32路可配置多功能IO

光模块MCU LH32M3CX

Cortex-M3内核, 双128K Flash, 32KB SRAM, 4路VDAC, 16路12bits SAR ADC, 1Mbps I²C

比较器LHC2031

集成阈值, 适用OSFP模块
兼容: MAX9039

电压基准LHR40XX

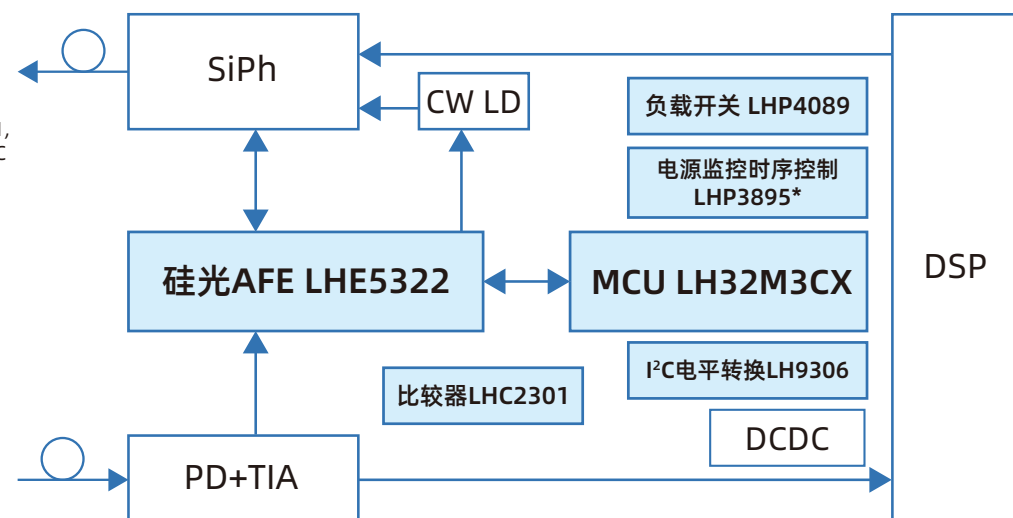
低温漂15ppm/°C max, 初始精度 0.1% max
兼容REF35 WLCSP4 package

负载开关 LHP4089

12A持续电流, 3.4mΩ超低导通阻抗

电源监控时序控制 LHP3895*

I²C电平转换 LH9306



· 带 "*" 为研发中产品

相干光模块控制系统解决方案

光模块 MCU LH32M3EX

Cortex-M3内核, 双128K Flash, 32KB
SRAM, 4路VDAC, 16路16bits SAR ADC,
1Mbps I²C

ADC LHA8959

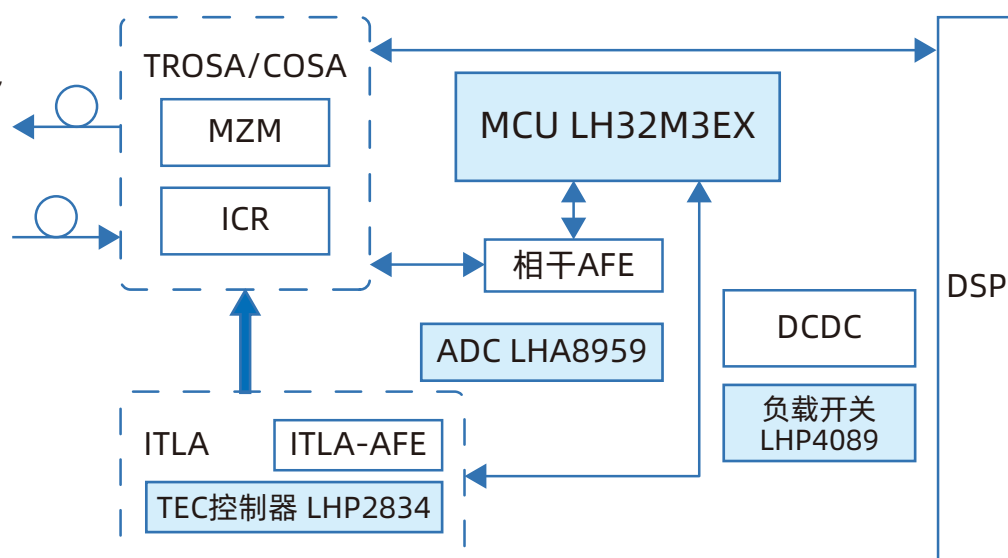
16bits MUX SAR ADC, 8通道, 500Ksps
兼容AD7699

TEC控制器 LHP2834

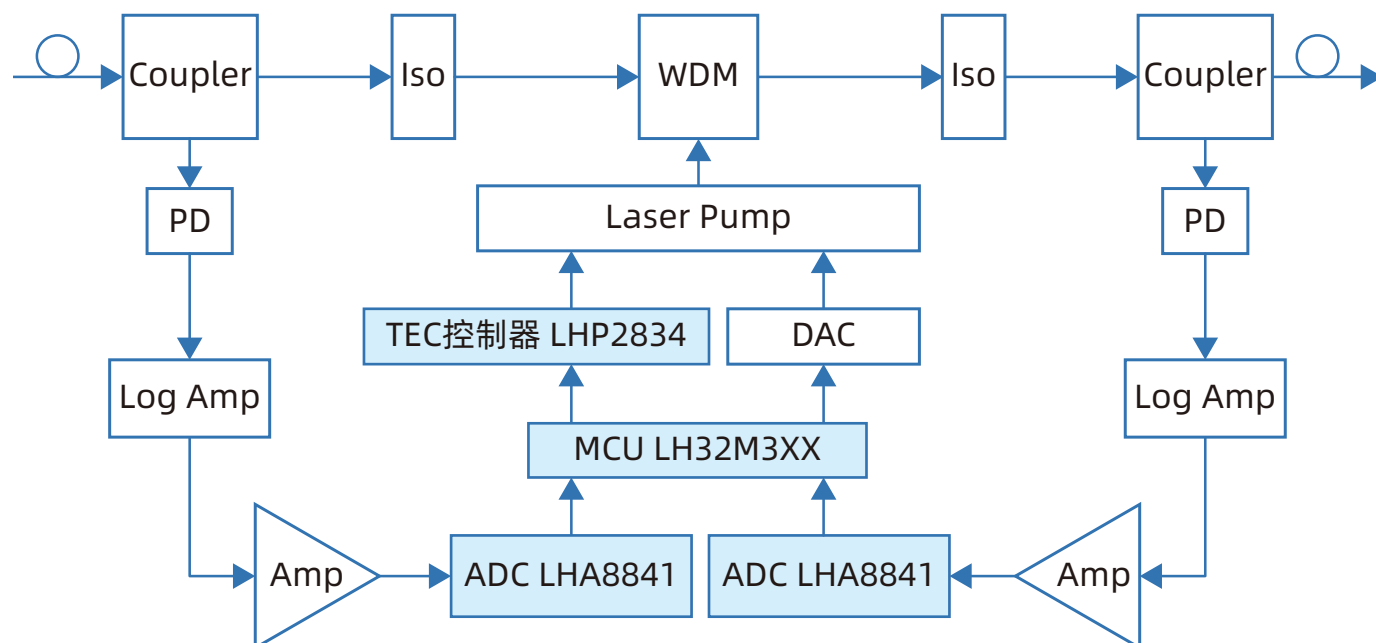
兼容ADN8834

负载开关 LHP4089

12A持续电流,3.4mΩ超低导通阻抗



EDFA光纤放大器解决方案



光模块 MCU LH32M3XX

Cortex-M3内核, 双128K Flash,
32KB SRAM, 4路VDAC, 16路SAR
ADC, 1Mbps I²C

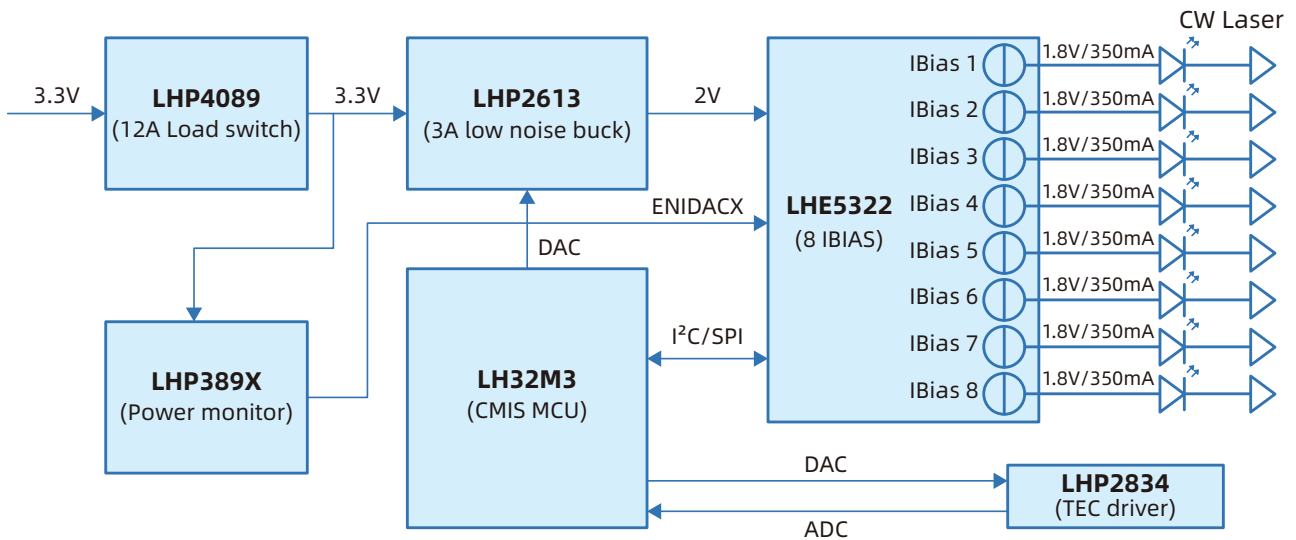
ADC LHA8841

14bits, 2.5Mbps, SAR ADC
兼容LTC2313

TEC控制器 LHP2834

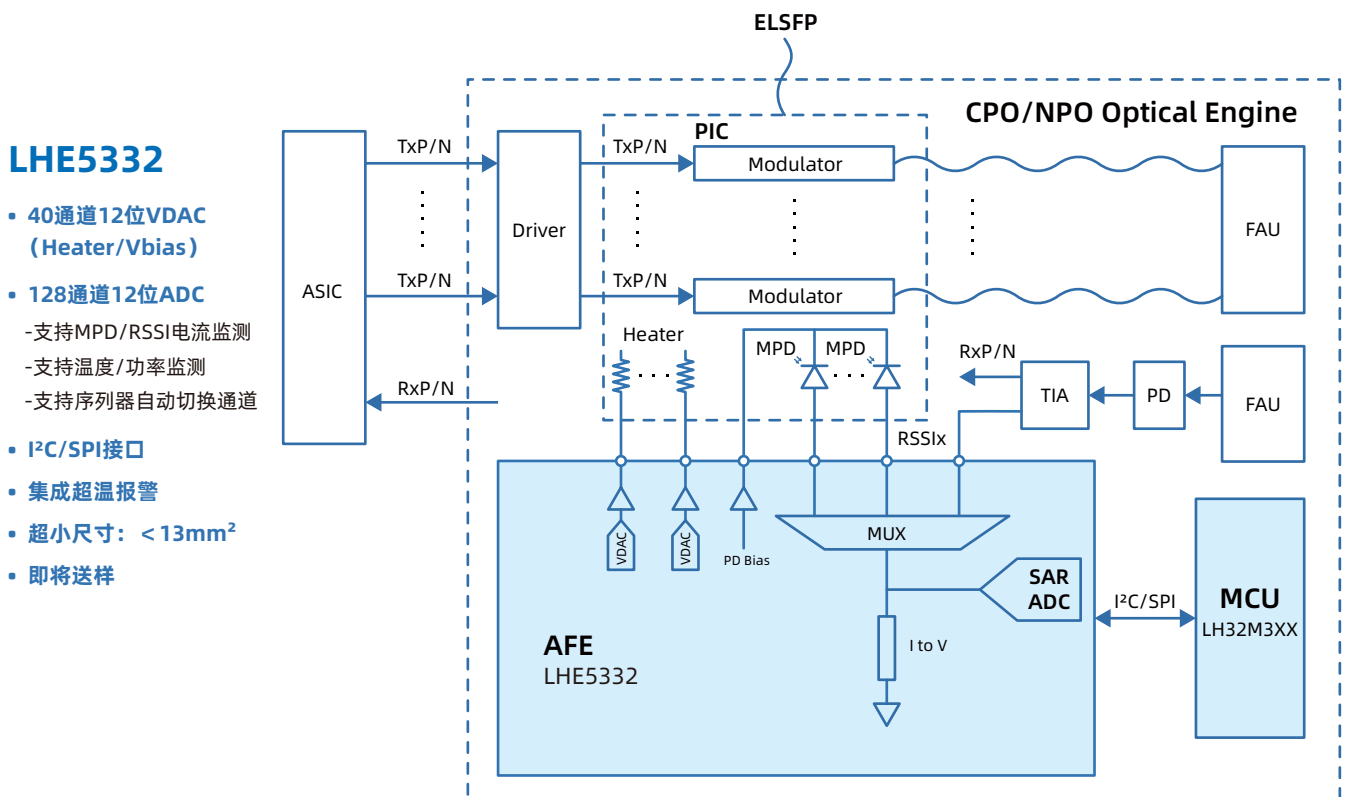
兼容ADN8834

ELSFP解决方案



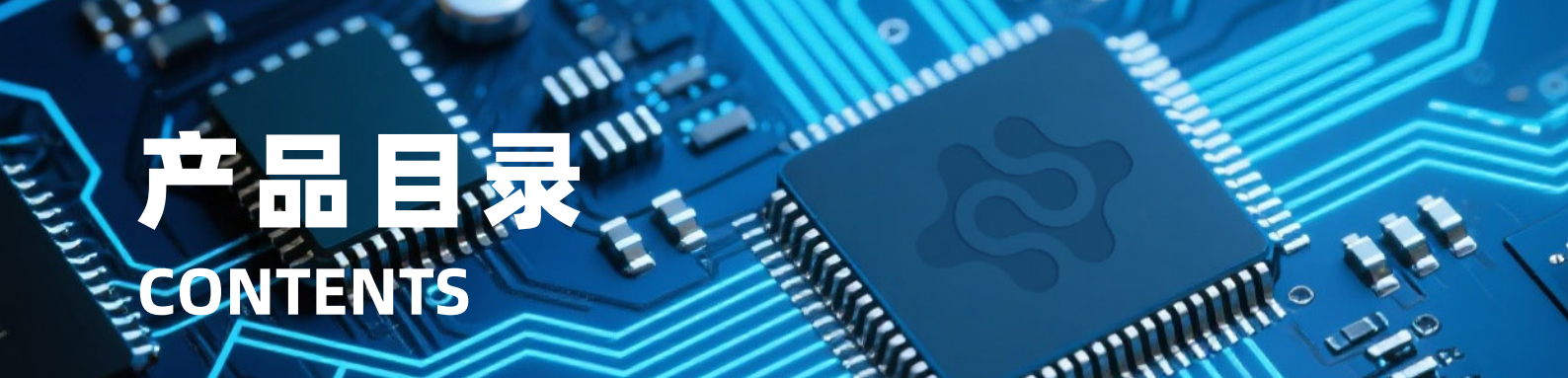
- 整体解决方案: LH32M3+LHP2613+LHE5322+LHP2834+LHP4089+LHP389X
- 总效率>80%: 其中, DC-DC效率>90%, IBIAS效率>90%
- 低噪声, 高电源抑制比
- IBIAS可以组合使用以获得更高的源电流, 同时也可以监测IBIAS电压

CPO/NPO硅光控制系统解决方案



LHE5332

- 40通道12位VDAC (Heater/Vbias)
- 128通道12位ADC
 - 支持MPD/RSSI电流监测
 - 支持温度/功率监测
 - 支持序列器自动切换通道
- I²C/SPI接口
- 集成超温报警
- 超小尺寸: <13mm²
- 即将送样



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集成高精度ADC SoC

Part Number	CPU	Frequency (MHz)	Flash Size (KB)	SRAM Size (KB)	ADC	DAC (Bits)	GPIO	Timer	UART	I²C	SPI	Analog Comparator	LCD Driver	Operating Temperature Range (°C)	Package Group	Status	Competitors
LH32M3CXX	Cortex-M3	72	2x128	32	12bits SAR 1MSPS	4x12bit	38	4	1	3	3	4	NA	-40~+125	WLCSP72	Production	ADUCM322
LH32M3EXX	Cortex-M3	72	2x128	32	16bits SAR 1MSPS	4x12bit	38	4	1	3	3	4	NA	-40~+125	WLCSP72 QFN64	Production	ADUCM322
LH32M0S3	Cortex-M0	32	128	4	24bits SD ADC 8kSPS	NA	35/14	2	1	1	1	NA	1	-40~+105	LQFP48 QFN48 SSOP24	Production	ADUCM361
LH32M0G311	Cortex-M0+	32	128	8	2通道独立 24bits SD ADC 7.812kSPS	1x16bit	21	6	2	1	2	0	NA	-40~+125	QFN48	Sample	ADUCM360 ADUCM361 RX23-E MAX32675C
LH32M0G314	Cortex-M0+	32	128	8	2通道独立 24bits SD ADC 7.812kSPS	1x16bit	16	6	2	1	2 (1路UART复用)	0	NA	-40~+125	QFN40	Sample	ADUCM360 ADUCM361 RX23-E MAX32675C
LH32M0G317	内置多点温补与线性度校正算法	NA	NA	NA	2通道独立 24bits SD ADC 7.812kSPS	1x16bit	NA	NA	1	1 (从机)	1 (从机)	0	NA	-40~+125	QFN40	Sample	ADUCM360 ADUCM361 RX23-E MAX32675C

高精度Δ-Σ ADC

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating Temperature Range (°C)	Package Group	Status	Competitors
LH001-55	4(8)	24		±13		30		1,2,4,6,8,12,24,48	1.65	SPI	-40~+125	QFN40	Production	ADS1256,ADS1258,AD7124
LHA7724	4	24		±1		128			5.5/9.1	SPI	-40~+125	QFN24	Production	ADS1281,ADS1282,ADS1283,ADS1284,ADS1287,AD7190
LHA7732	4	32	136	±1	-122	64	126		3.8/6	SPI	-40~+125	QFN24	Production	ADS1281,ADS1282,ADS1283,ADS1284,ADS1287,AD7190
LHA9954	4	32	135	±1	-130	4/64	126	1,2,4,8,16,32,64	7/12	SPI	-40~+125	QFN24	Production	ADS1284,ADS1283
LHA9924	4	24		±1		4/64		1,2,4,8,16,32,64	7/12	SPI	-40~+125	QFN24	Production	AD7190,CS5530
LHA9934	4	32	135	±1	-130	16/64	126	1,2,4,8,16,32,64	7/12	SPI	-40~+125	QFN24	Production	ADS1284,ADS1283
LHA9932	4	32	135	±1	-130	4/64	126	1,2,4,8,16,32,64	12	SPI	-40~+125	TSSOP28	Production	ADS1282
LHA7904	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	I²C	-40~+125	MSOP10	Production	ADS1015
LHA7914	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	I²C	-40~+125	MSOP10 DFN10	Production	ADS1115
LHA7924	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	I²C	-40~+125	MSOP10 DFN10	Production	ADS1115 24位升级
LHA7908	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	Production	ADS1018
LHA7918	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	Production	ADS1118
LHA7928	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	Production	ADS1118 24位升级
LHA7878	8	24	122	±5	-115	128	125	1,2,3,4,6,8,12,24	20	SPI	-40~+105	LQFP64	Production	ADS131E08
LHA7878H	8	24	122	±1	-120	128	125	1,2,3,4,6,8,12,24	20	SPI	-40~+105	LQFP64	Production	ADS1278,AD7768
LHA5274	4	24	110	±2	-115	256	120	NA	98	SPI	-40~+125	LQFP64	Sample	ADS1274,AD7768
LHA5278	8	24	110	±2	-115	256	120	NA	183	SPI	-40~+125	LQFP64	Production	ADS1278,AD7768
LHA5278H	8	24	111	±2	-115	512	120	NA	183	SPI	-40~+125	LQFP64	Sample	ADS127L18
LHA7668/B-8	8	24	145	±1	-120	38.4	120	1,2,4,8,16,32,64,128	0.7	SPI	-40~+125	QFN32	Production	AD7124-8
LHA7668/B-4	4	24	145	±1	-120	38.4	120	1,2,4,8,16,32,64,128	0.7	SPI	-40~+125	QFN32 TSSOP24	Production	AD7124-4
LHA5658-8	8	24		±1	-120	250	120			SPI	-40~+125	QFN40	Production	AD7175-8
LHA5658-2	2	24		±1	-120	250	120			SPI	-40~+125	TSSOP24	Production	AD7175-2
LHA5652-8	8	24		±1	-120	62.5	120			SPI	-40~+125	QFN40	Production	AD7173-8
LHA5652-2	2	24		±1	-120	62.5	120			SPI	-40~+125	TSSOP24	Production	AD7172-2
LHA5657-2	2	32		±1	-120	10	120			SPI	-40~+125	TSSOP24	Production	AD7177-2
LHA5115	8	24		±10		125		±20V		SPI	-40~+105	QFN40	Production	AD4115
LHA5114	8	24		±10		31.25		±20V		SPI	-40~+105	QFN40	Production	AD4114
LHA7530	1	24		±1.5		3.84	145	64,128	9	SPI	-40~+125	SSOP20	Production	CS5530
LHA7532	2	24		±2		76.8	140	1,2,4,8,16,32,64,128,256	16	SPI	-40~+125	SSOP20	Production	CS5532,AD7190
LHA7532B	2	32		±2		76.8	140	1,2,4,8,16,32,64,128,256	16	SPI	-40~+125	SSOP20	Production	CS5532,AD7190
LHA7534	4	24		±2		76.8	140	1,2,4,8,16,32,64,128,256	16	SPI	-40~+125	QFN24 SSOP24	Production	CS5534
LHA7220	2(4)	24		±1		4	125	1,2,4,8,16,32,64,128	0.66	SPI	-40~+125	TSSOP16 QFN16	Sample	ADS1220
LHA7120	2(4)	16		±5		4	125	1,2,4,8,16,32,64,128	0.66	SPI	-40~+125	TSSOP16 QFN16	Sample	ADS1120
LHA7879-2/4	2(4)	24	100	±6	-100	64	100	1,2,4,8,16,32,64,128	2.1(3.1)	SPI	-40~+125	TSSOP20 QFN20	Sample	ADS131M02 ADS131M04

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (LSB)	THD (dB)	ODR (kSPS)	Input Range (V)	Power Dissipation (mW)	Interface Type	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHA8951F	1(Differential)	18	99	±2	-110	1000	±5	6	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4007
LHA8951C	1(Differential)	18	99	±2	-110	500	±5	4	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4011
LHA8950F	1(Pseudo-diff)	18	93	±2	-110	1000	0~5	6	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4006
LHA8950C	1(Pseudo-diff)	18	93	±2	-110	500	0~5	4	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4010
LHA8961D	1(Differential)	16	94	±1	-110	1000	±5	6	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4004
LHA8961C	1(Differential)	16	94	±1	-110	500	±5	4	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4008
LHA8960D	1(Pseudo-diff)	16	88	±1	-110	1000	0~5	6	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4004
LHA8960C	1(Pseudo-diff)	16	88	±1	-110	500	0~5	4	SPI/QSPI	-40~+125	MSOP10	Production	AD5888X,AD5886X,AD5831X,AD798X,AD7690,AD7691,AD768X,AD7915,AD7916,AD4008
LHA6958H	8	16	91	±1	-102	1000	±12.5,±10,±5,±2.5	230	SPI PARALLEL	-40~+125	LQFP64	Production	AD7606,AD7606B,AD7606C,ADS8588
LHA6958C	8	16	91	±1	-108	500	±10,±5	230	SPI PARALLEL	-40~+125	LQFP64	Production	AD7606,AD7606B,AD7606C,ADS8588
LHA6958D	8	16	91	±1	-102	500	±10,±5	230	SPI PARALLEL	-40~+125	LQFP64	Production	AD7606,AD7606B,AD7606C,ADS8588
LHA8831	1(Single-Ended)	12	72	±0.5	-85	2500	2.048,4.096	14	SPI	-40~+125	TSOT-23-8	Production	LTC2313,LTC2312
LHA8841	1(Single-Ended)	14	77	±1	-85	2500	2.048,4.096	14	SPI	-40~+125	TSOT-23-8	Production	LTC2313,LTC2312
LHA6916/B	16	16	92	±1	-105	1000	±10,±5,±2.5		SPI PARALLEL	-40~+125	LQFP80	Production	AD7616,ADS8686S
LHA8959-16	8	16	92	±1	-110	500	5,4.096,2.5	20	SPI	-40~+125	QFN20	Production	AD7699
LHA8949-16	8	16	92	±1	-110	250	5,4.096,2.5	10	SPI	-40~+125	QFN20	Production	AD7689A/B/C
LHA8949-18	8	18	92	±1	-110	250	5,4.096,2.5	10	SPI	-40~+125	QFN20	Production	AD7689A/B/C, 精度提升

集成ECG/EEG AFE

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	INL (PPM/FS)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating Temperature Range (°C)	Package Group	Status	Competitors
LH001-91	1	24	±2	8	117	1,2,4,6,8,12,24,48	0.95	SPI	-40~+85	QFN40 WLCSP30	Production	ADS1291
LH001-99	1	24	±2	8	117	1,2,4,6,8,12,24,48	2.2	SPI	-40~+85	QFN40 WLCSP30	Production	ADS1299
LHE7904G	4	24	±2	64	125	1,2,3,4,6,8,12,24	5(HP),3(LP)	SPI	-40~+85	BGA64 LQFP64	Production	ADS1294
LHE7904E	4	24	±2	16	125	1,2,3,4,6,8,12,24	1.8	SPI	-40~+85	LQFP64	Production	ADS1294
LHE7906G	6	24	±2	64	125	1,2,3,4,6,8,12,24	7(HP),4.5(LP)	SPI	-40~+85	BGA64 LQFP64	Production	ADS1296
LHE7906E	6	24	±2	16	125	1,2,3,4,6,8,12,24	2.4	SPI	-40~+85	LQFP64	Production	ADS1296
LHE7908G	8	24	±2	64	125	1,2,3,4,6,8,12,24	9(HP),6(LP)	SPI	-40~+85	BGA64 LQFP64	Production	ADS1298
LHE7908E	8	24	±2	16	125	1,2,3,4,6,8,12,24	3	SPI	-40~+85	LQFP64	Production	ADS1298
LHE7909-4F	4	24	±2	32	125	1,2,3,4,6,8,12,24	10	SPI	-40~+85	LQFP64	Production	ADS1299-4
LHE7909-8F	8	24	±2	32	125	1,2,3,4,6,8,12,24	18	SPI	-40~+85	LQFP64	Production	ADS1299

高精度基准源

Part Number	Power Supply (V)	Output Voltage (V)	Temp Drift (ppm/°C)	Initial Accuracy (%)	Current Load (mA)	Noise (uVp-p/V)	Long-term Stability (1000hrs)(ppm)	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHR30XXA	2.7~18	2.048/2.5/3.0/ 4.096/4.5/5.0/10.0	5	0.05	±10	1.5	50	-40~+125	MSOP8	Production	REF50XX,ADR45XX
LHR30XXA	2.7~18	2.048/2.5/3.0/ 4.096/4.5/5.0/10.0	3	0.05	±10	1.5	100	-40~+125	SOP8	Production	REF50XX,ADR45XX
LHR30XXB	2.7~18	2.048/2.5/3.0/ 4.096/4.5/5.0	8	0.1	±10	1.5	50	-40~+125	MSOP8	Production	REF50XX,ADR45XX
LHR30XXB	2.7~18	2.048/2.5/3.0/ 4.096/4.5/5.0	8	0.1	±10	1.5	100	-40~+125	SOP8	Production	REF50XX,ADR45XX
LHR40XX	2.5~5.5	2.048/2.5/3.0/ 3.3/4.096/5.0	15	0.1	±10	10	100	-40~+125	SOT23-3 WLCSP4	Production	REF30XX,REF31XX, REF33XX,MAX6018
LHR34XX	2.5~5.5	2.048/2.5/3.0/ 3.3/4.096/5.0	6	0.05	±10	7	100	-40~+125	SOT23-6	Production	REF34XX,ADR34XX, MAX6071

特定应用功能产品

Part Number	Features	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHE5312/5315	Analog front-end chip for silicon photonics optical control. - 12-channel 12bits VDAC with max 30mA load current or 0~30mA IDAC. - 4-channel 12bits 200mA/250mA IDAC. - 4-channel analog comparator. - 12-channel configurable with multi-function IO.	-40~+125	WLCSP56	Production	AD1080
LHE5322	Analog front-end chip for silicon photonics optical control. - 18-channel 12bits VDAC with max 30mA load current. - 8-channel 12bits 200mA/250mA IDAC. - 32-channel configurable with multi-function IO.	-40~+125	WLCSP100	Production	AD1088
LHE5504	Analog front-end chip for EML. - 4-channel 12bits 200mA IDAC. - 4-channel 12bits -2.5V/-5V VDAC. - 12-channel 12bits 1MSPS ADC.	-40~+125	WLCSP36	Production	AMC60804 AMC60704
LHC2031	Comparator with Precision Reference for OSFP optical module. - 2.5V to 5.5V Single-Supply Operation. - 40µA Quiescent. - 200ns Propagation Delay. - Voltage Reference Offers. · ±0.4% (max) Initial Accuracy. · 15ppm/°C Temperature Coefficient. · Stable for 0 to 100nF Capacitive Loads.	-40~+125	WLCSP6	Production	MAX9039
LHP2834	1.5 A Thermoelectric Cooler (TEC) Controller. - Integrated low RDSOn MOSFETs for the TEC controller. - TEC voltage and current operation monitoring. - 2.50 V reference output with 1% accuracy.	-40~+125	WLCSP25 QFN24	Production	ADN8834
LH9306	Dual bidirectional I2C and SMBus voltage-level translator. - Allows voltage-level translation between. · 1.2-V VREF1 and 1.8-V, 2.5-V, 3.3-V, or 5-V VREF2. · 1.8-V VREF1 and 2.5-V, 3.3-V, or 5-V VREF2. · 2.5-V VREF1 and 3.3-V or 5-V VREF2. · 3.3-V VREF1 and 5-V VREF2. - Negative voltage spike isolation. - Less than 3ns maximum propagation delay.	-40~+125	DFN8	Sample	PCA9306 LSF0102
LHP4087	Low RDSOn Load Switch with Current Monitoring. - Integrated 3.7mΩ Ultra-low RDSOn FET. - 8A continuous current. - Accurate current monitor output(±2% at 25oC for IOUT >3A).	-40~+125	QFN12	Sample	MP5087
LHE3302	Analog front-end chip for CGM, Electrochemical sensor Supports 2 independent DC measurement channels. - 2 channels of 12-bit voltage DAC - 1 channel of 16-bit ADC. - TIA resistors with multiple configurable ranges: 100kΩ, 200kΩ, 500kΩ, 1MΩ, 3MΩ, 5MΩ, 10MΩ. - 4-channel 12bits 200mA IDAC. - 4-channel analog comparator - 12-channel configurable with multi-function IO Ultra-low power consumption design	-40~+85	QFN20 WLCSP16	Production	
LHBMS9818	Measures up to 18 battery cells in series -2 mV maximum total measurement error -Built-in isoSPI interface -290 µs to measure all cells in a system -Passive cell balancing up to 200 mA (maximum) -9 general-purpose digital I/O or analog inputs -9 µA sleep mode supply current	-40~+85	LQFP64	Sample	ADBMS1818 LT6813

Part Number	Features	Resistor Ratio	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHE5400A	0.01% matching, 0.2ppm/°C drift Quad matched resistor network	R2/R3:R1/R4=1:1(10k:10k/100k:100k/1k:1k/1M:1M) R2/R3:R1/R4=1:10 (10k:100k) R2/R3:R1/R4=1:5 (1k:5k) R2/R3:R1/R4=1:4 (1.25k:5k) R2/R3:R1/R4=1:9 (1k:9k)	-40~+125	MSOP8	Production	LT5400
LHE5400B	0.025% matching, 0.2ppm/°C drift Quad matched resistor network	R2/R3:R1/R4=1:1(10k:10k/100k:100k/1k:1k/1M:1M) R2/R3:R1/R4=1:10 (10k:100k) R2/R3:R1/R4=1:5 (1k:5k) R2/R3:R1/R4=1:4 (1.25k:5k) R2/R3:R1/R4=1:9 (1k:9k)	-40~+125	MSOP8	Production	LT5400

运放系列产品

Part Number	Power Supply (V)	Input Offset Max ± (uV)	Voltage Gain (V/V)	Noise@ 1kHz,G=100 (nV/sqrt (Hz))	CMRR Min @G=1 (dB)	Input Bias Current Max ± (nA)	Iq (mA)	Bandwidth @G=1 (MHz)	Gain Error Max ±@ G=100 (%)	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHAMP188	4~36	40	1~1000	9	84	2.5	2.6	2.2	0.2	-40~+125	SOP8 MSOP8	Production	INA188,TPA1286
LHAMP189	4~36	40	1~1000	9	84	2.5	2.6	2.2	0.2	-40~+125	SOP8 MSOP8	Production	INA821,TPA1286U
LHAMP1528	2.2~5.5	2.5		5	135	0.1	1.3	3		-40~+125	SOP8 MSOP8 SOT23-5	Production	ADA4528
LHAMP1060	1.4~3.6	500		170	96	0.2	0.00033	0.006		-40~+125	DFN-2x2-8L	Sample	SGM8040

4~20mA电流环路DAC

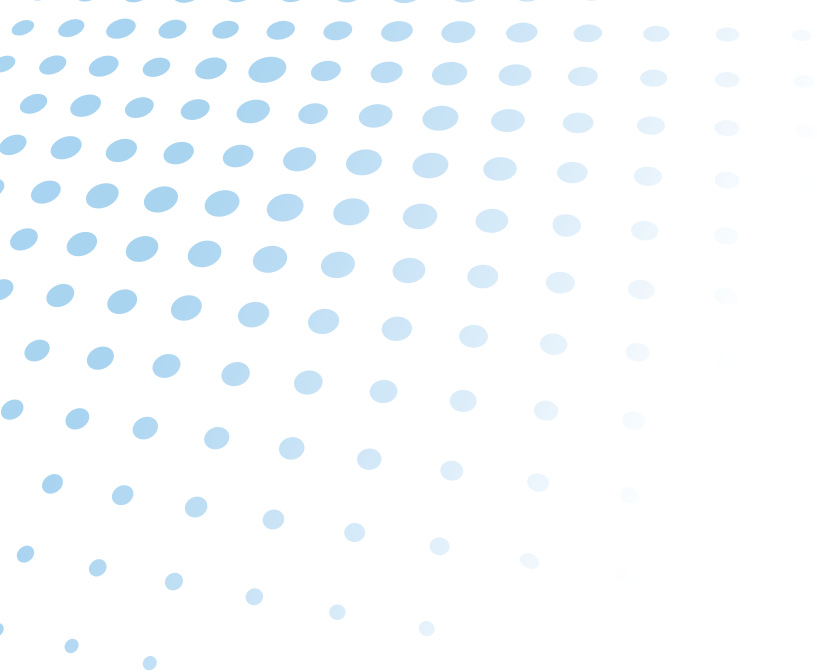
Part Number	Features	Resolution	Channel	Output Type	Output Range	Supply Voltage Range	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHD5755-1	Quad Channel, 16-Bit, Serial Input, 4 mA to 20 mA and Voltage Output DAC, Dynamic Power Control, HART Connectivity	16	4	Current output, Voltage output	±10V,±5V,0mA to 20mA, 0mA to 24mA,0V to 10V, 0V to 5V,4mA to 20mA	-26.4V to -10.8V, 4.5V to 5.5V, 9V to 33V	-40~+105	QFN64	Production	AD5755-1
LHD5422	Low cost, Precision, Fully integrated 16-bit digital-to-analog converters (DAC), Programmable current source and voltage output	16	1	Current source, Voltage output	0mA to 20mA, 0mA to 24mA, 4mA to 20mA, 0V to 5V, 0V to 10V, -5V to 5V, -10V to 10V	-26.4V to -10.8V, 4.5V to 5.5V, 9V to 33V	-40~+105	QFN64	Sample	AD5422

4~20mA HART 接口调制解调器

Part Number	Features	Converter Primary Function	Oscillator On Chip	Integrated RX Filtering	Interface	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHE2700	Low power HART modem	HART Modem	Yes	Yes	UART	-40~+125	QFN24	Production	AD5700,DAC8740H,SD2057

电源产品

Part Number	Features	Vin (min)(V)	Vin (max)(V)	Iout Max(A)	Switching Frequency(kHz)	Control Mode	Vout (min)(V)	Vout (max)(V)	Operating Temperature Range (°C)	Package Group	Status	Competitors
LHP2613	Low Noise and Low Ripple Buck Converter with Integrated Ferrite Bead Filter Compensation	3	17	3	900-2400	Current mode	0.8	5.5	-40~+125	QFN10	Sample	TPS62913
LHP4089	The LHP4088/4089 is a load switch that provides programmable soft-start time to minimize inrush current.	2.8	5.5	12			2.8	5.5	-40~+125	DFN12	Sample	SGM25642



成 为 一 家 百 年 传 奇 的 半 导 体 公 司



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版本号：V2.3.2



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