

钰泰半导体产品手册 Product Manual

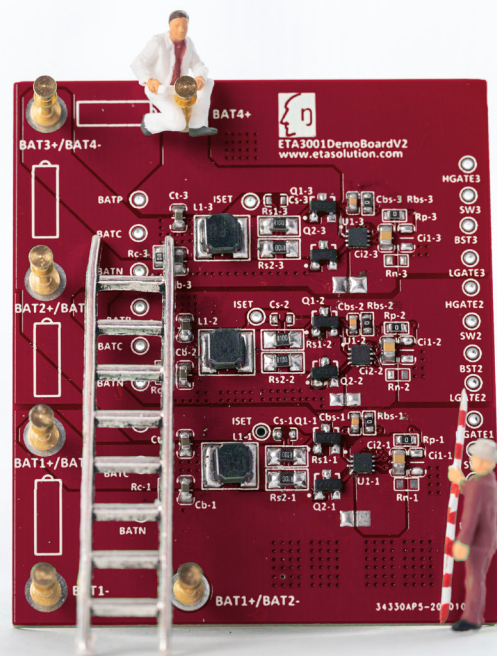
2024Q4



ETA9140 High Performance PMIC
for Storage Market

Dual-phase Composite
Buck Controller

ETA2800
*coming soon



关于钰泰 About ETA

钰泰半导体股份有限公司聚焦于电源管理类集成电路产品的研发、设计与销售,是国家鼓励的重点集成电路设计企业和高新技术企业。公司拥有超过700款在售产品,DC/DC、LDO、电池管理、多通道PMIC、LED Driver、AC/DC、OVP、Load Switch、Level Shift、Amplifier、Sensor、电机驱动和电源模块等电源管理细分品类,广泛应用于通信设备、工业控制、消费电子、汽车电子等诸多领域,是智能电表、安防监控、手机、智能穿戴设备、智能家居设备、机顶盒、路由器等领域的主要芯片供应商。

ETA is a key power management IC design high-tech enterprise and focuses on the R&D, design and sales of power management IC products. ETA has more than 700 products in production, covering DC/DC, LDO, battery management, PMIC, LED driver, AC/DC, OVP, load switch, level shift, amplifier, sensor, motor driver, power module and other power management sub-categories, which are widely used in communication equipment, industrial control, consumer electronics, automotive electronics and many other fields. ETA is one of the main suppliers of power management IC in the fields of smart meters, surveillance, mobile phones, smart wearable devices set-top boxes and routers,.

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公司优势 Why Choose us

全面的技术架构 Comprehensive Technical Architecture

坚持自主正向研发，已在电源管理芯片领域构筑了全面的技术架构体系，兼具DC/DC、LDO、电池管理、马达驱动、多通道PMIC和ACDC等多类别产品的设计能力。

we insists on independent and positive R&D and has built a comprehensive technical architecture system in the field of power management chips, we has the design capabilities of LDO, battery management, motor driver, PMIC, ACDC and other types of products.

丰富的产品线 Rich Product Line

超700款在售产品，覆盖DC/DC、LDO、电池管理、多通道PMIC、LED Driver、AC/DC、OVP、Load Switch、Level Shift、Amplifier、Sensor、电机驱动和电源模块电源管理细分品类，能够提供全方位、一体化的电源管理方案。

We has more than 700 products on sale, covering DC/DC, LDO, battery management, PMIC, LED driver, AC/DC, OVP, load switch, level shift, amplifier, sensor, motor driver, power module and other power management sub-categories, and can provide customers with comprehensive and integrated power management solutions.

全球化的研发团队 Global R&D Team

拥有全球化的研发团队，在中国多地、美国、越南、新加坡设有研发中心。研发骨干具有十五年以上模拟芯片领域的研发经验，研发团队超150人。

We has built a global R&D team with R&D centers in China, the United States Vietnam and Singapore. Core R&D Team has more than 15 years of R&D experience in the field of analog chips, and our R&D team has more than 150 people.

优质稳定的供应链 High-quality and Stable Supply Chain

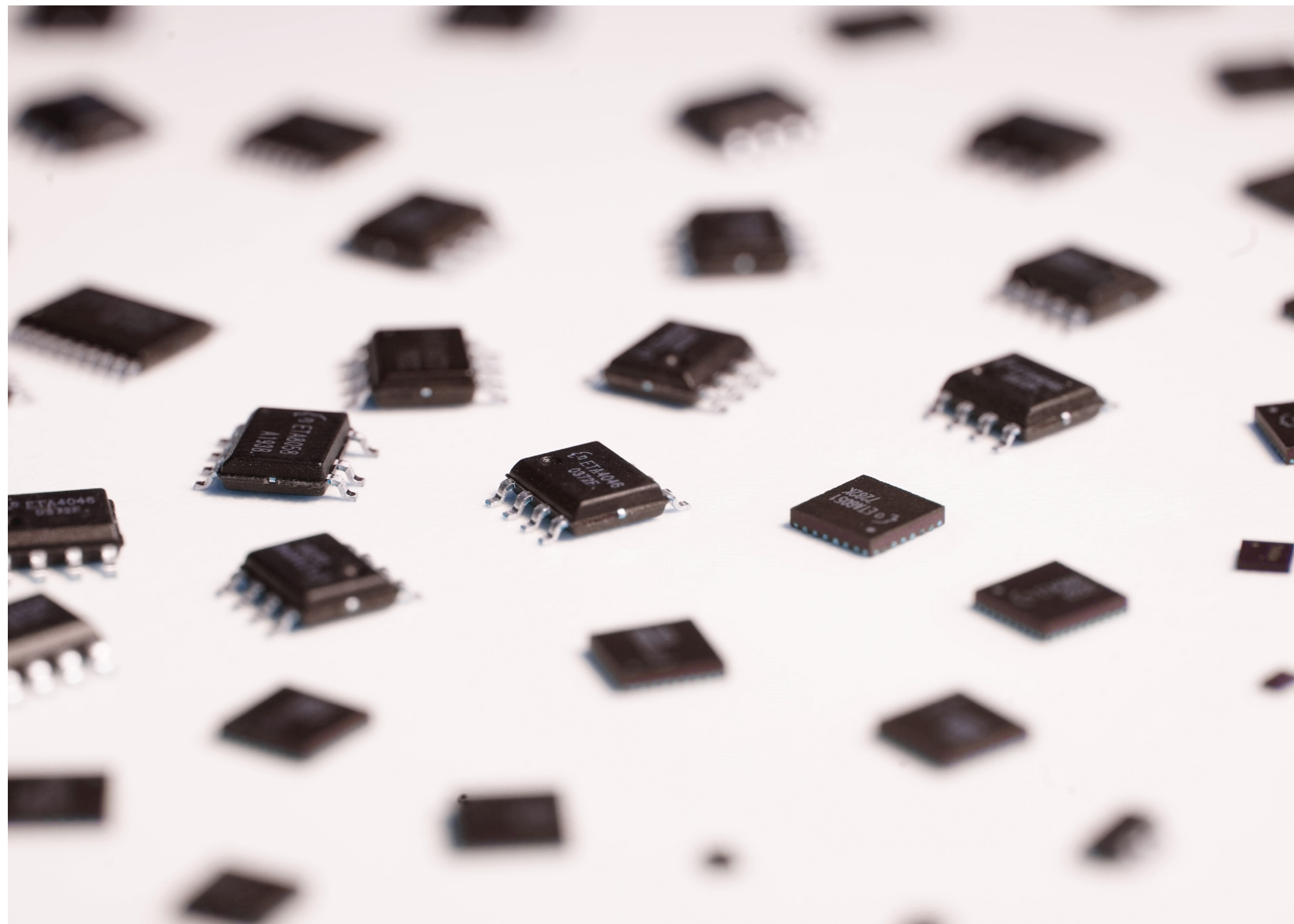
合作伙伴包括DBHiTek、和舰芯片、新唐科技、长电科技、华天科技等国内外知名厂商，长期保持着稳固、紧密、高效的合作关系。

Our Partners such as DB HiTek, Hejian Chip, Nuvoton, JCET, HT-Tech, etc. are all well-known domestic and foreign manufacturers with advanced technology, and We has maintained a stable, close and efficient cooperative relationship with them for a long time.

高质量品牌客户资源 High-quality Brand Customer Resources

产品广泛覆盖在通信设备、工业控制、消费电子、汽车电子等应用领域，并取得细分行业顶级客户的认可。

Our products are widely used in communication equipment, industrial control, consumer electronics and other application fields, and have been recognized by top customers in subdivided industries.



01 降压稳压器 Buck

👍 主推产品 Recommended Product
🔴 新产品 New Product

5V LV Buck

Output Current	<1A	1A	1.2A	1.5A	2A	2.5A	3A	>3A
Package								
SOT23/ SOT5X3				ETA3414 3MHz SW Freq. FPWM SOT23-5 👍 ETA3485 2MHz SW Freq. PFM+PWM SOT23-5	ETA3526/7 COT 2MHz SW Freq. PFM+PWM/ FPWM SOT563	👍 ETA3417/8 3MHz SW Freq. PFM+PWM/FPWM SOT23-5	👍 ETA3409/99 1MHz SW Freq. PFM+PWM SOT23-5 (09) SOT23-6 (99)	👍 ETA3521 4A, COT 2MHz SW Freq. PFM+PWM SOT563
					ETA3448/58 COT, 2MHz SW Freq. SOT23-5 (3448) SOT563 (3458)		👍 ETA353X COT, 2MHz SW Freq. PFM+PWM/ FPWM Output Discharge(3534) SOT563/SOT23-5	
DFN/ QFN	👍 ETA3425 0.6A,1uA Iq 1.4MHz SW Freq. PFM+PWM VFB 1.11V SOT23-5/ DFN2x2-6	🔴 NEW ETA344X 2M/3MHz SW Freq. PFM+PWM/PWM SOT563 SOT23-5 SOT23-6 DFN1.6x1.6-6	ETA3426/7 1uA Iq 1.4MHz SW Freq. PFM+PWM VFB 1.129V/0.788V DFN2x2-6/ SOT23-5		ETA3451/T/2/3 COT; VFB 0.45V 1.5MHz SW Freq. VIN min 2.6V/1.75V DFN2x2-8/ SOT23-6		👍 ETA351X COT 1M/2MHz SW Freq. PFM +PWM/ FPWM SOT563/SOT23/DFN	
		ETA3415 3MHz SW Freq. PFM+PWM SOT563/ DFN1.6x1.6-6			👍 ETA36XX COT 2MHz/3MHz/4.6MHz PFM+PWM/FPWM SOT563/DFN/SOT23			
		ETA3423/9 3MHz SW Freq. FPWM SOT563(23) DFN1.6x1.6-6(23) DFN1.5x1-6(29)						
CSP	ETA3707/A/B/C 1A/500mA, COT 360nA ultra-low Iq 1.2MHz SW Freq. PFM+PWM DFN2x2-8/ CSP-8						👍 ETA3519/20 4A 2.4MHz SW Freq. PFM+PWM 5Ω Rdischarge DFN1.5x1.5-6 DFN2x2-7	
	👍🔴 NEW ETA379X 1A/600mA, COT 2uA Iq, 4MHz 600nA Iq, 1.5MHz PFM+PWM/FPWM CSP-6						ETA355X 5A, COT 2MHz SW Freq. I2C Control CSP-20	ETA9121 5V 10A Dual Phase 3MHz SW Freq. I2C Control CSP-24

主推产品/产品系列 Featured Product Series

Part No.	Iout Max (A)	Freq. (Hz)	VFB (V)	Feedback Accuracy	Mode	Power Good	Discharge	Latch off	P2P	Package	Pin Configuration
LV Buck 1A ETA344X系列											
ETA3440	1A	2M	0.6	2%	PFM					SOT23-5	
ETA3443	1A	2M	0.6	2%	FPWM						
ETA3415	1A	3M	0.6	2%	PFM					SOT563	
ETA3423	1A	3M	0.6	2%	FPWM					SOT563	
LV Buck 2A ETA36XX系列											
ETA3612	2A	2M	0.6	1%	PFM	■	10ohm(SW)		SY8892	FCSOT563	
ETA3617	2A	2M	0.6	1%	Forced PWM	■	10ohm(SW)		SY8892E		
ETA3615	2A	2M	0.6	1%	PFM		10ohm(SW)		MP1605/ TLV62569	FCSOT563	
ETA3625	2A	2M	0.6	1%	Forced PWM		10ohm(SW)		MP1605C		
ETA3618	2A	2M	0.6	1%	PFM	■	10ohm(SW)		TPS62A02	FCSOT563	
ETA3628	2A	2M	0.6	1%	Forced PWM	■	10ohm(SW)		TPS62A02A		
ETA3613	2A	3M	0.6	1%	PFM		10ohm(SW)		SY8089	SOT23-5	
ETA3614	2A	3M	0.6	1%	PFM	■	10ohm(SW)		SY8032	SOT23-6	
ETA3616	2A	4.6M	0.8	1%	PFM		10ohm(SW)		SGM6033	DFN2×2-6	
LV Buck 3A ETA35XX系列											
ETA3513	3A	1M	0.6	1%	PFM		600Ω			SOT23-5	
ETA3513W	3A	1M	0.6	1%	Forced PWM		600Ω				

Part No.	Iout Max (A)	Freq. (Hz)	VFB (V)	Feedback Accuracy	Mode	Power Good	Discharge	Latch off	P2P	Package	Pin Configuration
ETA3515	3A	2M	0.6	1%	PFM				MP1605/TLV62569	FCSOT563	
ETA3525	3A	2M	0.6	1%	Forced PWM				MP1605C		
ETA3512	3A	2M	0.6	1%	PFM	■			SY8892	FCSOT563	
ETA3517	3A	2M	0.6	1%	Forced PWM	■			SY8892E		
ETA3514	3A	2M	0.6	1%	PFM	■		UVP+OVP	RT5797A	DFN2×2-8	
ETA3518	3A	2M	0.6	1%	PFM	■			TLV62585	FCSOT563	

其他 LV Buck 产品

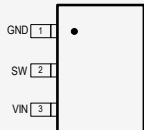
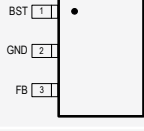
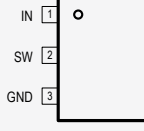
Part No.	Iout Max (A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Architecture	Vout Min (V)	Vfb (V)	Switching Frequency (HZ)	Package	Comment
ETA3429	1	2.6	5.5	6000	Sync.	0.6	0.6	2.7M	DFN1.5x1-6	Vin OVP at 7V, Forced PWM
ETA3410	2	2.6	5.5	30	Sync.	0.6	0.6	3M	DFN2x2-8	Mode Selectable
ETA3411	2	2.1	5.5	33	Sync.	0.6	0.6-3.4	3M	DFN1.5x1-6/DFN1.6x1.6-6/DFN2x2-8	PFM/PWM auto switching
ETA3413	2	2.6	5.5	8000	Sync.	0.6	0.6	3M	SOT23-5	Forced PWM Mode
ETA3451	2	2.6	5.5	50	Sync. COT	0.45	0.45	1.5M	DFN2x2-8	Vin OVP at 6.25V, Ultra-fast response, PFM/PWM
ETA3451T	2	2.6	5.5	50	Sync. COT	0.45	0.45	2M	DFN2x2-8	Vin OVP at 6.35V, Ultra-fast response, PFM/PWM
ETA3452	2	2.6	5.5	50	Sync. COT	0.45	0.45	1.5M	SOT23-6	Vin OVP at 6.25V, Ultra-fast response, PFM/PWM
ETA3453	2	1.75	5.5	50	Sync. COT	0.45	0.45	1.5M	DFN2x2-8/SOT23-6	Vin OVP at 6.15V, Ultra-fast response, PFM/PWM
ETA3448	3	2.5	5.5	8000	Sync. COT	0.6	0.6	2M	SOT23-5	Vin OVP at 5.85V, Ultra-fast response, Forced PWM
ETA3458	3	2.5	5.5	6000	Sync. COT	0.6	0.6	2M	SOT563	Vin OVP at 5.85V, Ultra-fast response, Forced PWM
ETA3534	3	2.6	5.5	60	Sync. COT	0.6	0.6	2M	SOT563	Ultra-fast response, PFM/PWM
ETA3531	3.5	2.6	5.5	60	Sync. COT	0.6	0.6	2M	SOT563	Ultra-fast response, PFM/PWM
ETA3532	3.5	2.6	5.5	10000	Sync. COT	0.6	0.6	2M	SOT563	Ultra-fast response, Forced PWM
ETA3533	3.5	2.6	5.5	60	Sync. COT	0.6	0.6	2M	SOT23-5	Ultra-fast response, PFM/PWM
ETA3519	4	2.4	5.5	26	Sync. COT	0.6	0.6	2.4M	FCDFN1.5x1.5-6	Ultra-fast response, PFM/PWM
ETA3520	4	2.4	5.5	26	Sync. COT	0.6	0.6	2.4M	FCDFN2x2-7	Ultra-fast response, PFM/PWM
ETA3555	5	2.5	5.5	55	I2C, Sync. COT	0.6	I2C	2M	CSP-20	Vin OVP at 6.15V, I2C Vout Setting, Ultra-fast response, Addr=C0H
ETA355C	5	2.5	5.5	55	I2C, Sync. COT	0.6	I2C	2M	CSP-20	Vin OVP at 6.15V, I2C Vout Setting, Ultra-fast response, Addr=C0H

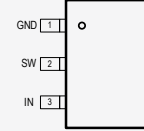
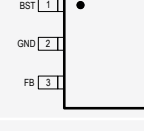
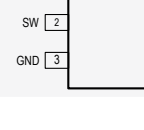
Part No.	Iout Max (A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Architecture	Vout Min (V)	Vfb (V)	Switching Frequency (HZ)	Package	Comment
ETA355D	5	2.5	5.5	55	I2C, Sync. COT	0.6	I2C	2M	CSP-20	Vin OVP at 6.15V, I2C Vout Setting, Ultra-fast response, Addr=C0H
ETA355E	5	2.5	5.5	55	I2C, Sync. COT	0.6	I2C	2M	CSP-20	Vin OVP at 6.15V, I2C Vout Setting, Ultra-fast response, Addr=C0H
ETA355T	5	2.5	5.5	55	I2C, Sync. COT	0.6	I2C	2M	CSP-20	Vin OVP at 6.15V, I2C Vout Setting, Ultra-fast response, Addr=C0H
ETA3655	5	2.5	5.5	70	ADI, Sync. COT	0.6	ADI	2M	CSP-20	Vin OVP at 6.15V, ADI Vout Setting, Ultra-fast response
ETA3575	6	2.5	5.5	35	Sync. COT	0.6	0.6	2M	FCQFN2*1.6/QFN-14	I2C control 6ABuck
ETA3408	1	2.6	6	40	Sync.	0.6	0.6	1.5M	SOT23-5	PFM/PWM auto switching
ETA3486	1	2.6	6	40	Sync.	0.6	0.6	1.5M	SOT23-5	PFM/PWM auto switching
ETA3560	1	2.6	6	40	Sync.	0.6	0.6	1.5M	DFN2x2-6	PFM/PWM auto switching
ETA8010	1	2.6	6	40	Sync.	0.6	0.6	1.5M	DFN2x2-6	PFM/PWM auto switching
ETA3406	1.2	2.6	6	38	Sync.	0.6	0.6	1.5M	SOT23-5	PFM/PWM auto switching
ETA3416	1.5	2.6	7	20	Sync.	0.6	0.6	3M	SOT23-5	Vin OVP at 7V, PFM/PWM
ETA3424	1.5	2.6	7	6000	Sync.	1.2	NA	3M	SOT23-5	Vin OVP at 7V, Forced PWM
ETA3496	1.2	2.5	7.2	34	Sync.	0.6	0.6	1.2M	SOT23-5	Vin OVP at 7.2V, PFM/PWM
ETA3499	3	2.4	7.3	42	Sync.	0.6	0.6	1M	SOT23-6	Vin OVP at 7.3V, PFM/PWM

10V-30V MV Buck

Output Current	1A	2A	3A	4A	5A	6A	>6A
V _{IN}		ETA1651/G 17V 2A,COT 1250kHz SW Freq. FPWM SOT563	ETA1653 17V 3A,COT 700kHz SW Freq. PFM+PWM SOT563	👍 ETA8144/5 18V 4A,COT 550kHz SW Freq. PFM+PWM/FPWM SOT23-6	ETA1656 18V 5A,COT 550kHz SW Freq. DFN2x2-6	👍 ETA8156/7 17V 6A,COT 550kHz SW Freq. PFM+PWM/FPWM FCTSOT23-6	
		👍 ETA1652/B 17V 2A,COT 660kHz SW Freq. PFM+PWM SOT563	👍 ETA1750/3 18V 3A,COT 1MHz SW Freq. PFM+PWM/FPWM SOT563	👍 ETA1654 18V 4A,COT 550kHz SW Freq. PFM+PWM SOT563		👍 ETA2236/7 17V 6A,COT 550kHz SW Freq. PFM+PWM/FPWM FCTSOT23-8 DFN3x3-10	
		👍 ETA1476/7 18V 2A ETA1477 COT 500kHz/600kHz PFM+PWM SOT23-6	👍 ETA1458/48 18V 3A,COT 600kHz SW Freq. PFM+PWM/FPWM SOT23-6	ETA8114 18V 4A,COT 550kHz SW Freq. PFM+PWM SOT23-6		ETA2235 17V 6A,COT 170uA Iq 550kHz SW Freq. PFM+PWM FCTSOT23-8 DFN3x3-10	
		👍 ETA1466 18V 2A,COT 700kHz SW Freq. PFM+PWM SOT23-6	ETA1471 18V 3A 500kHz SW Freq. PFM+PWM FCTSOT23-6				
17V-18V		ETA1468 18V 2A,COT 1MHz SW Freq. FPWM SOT23-6	ETA8213/ 8123 18V 3A,COT 600kHz SW Freq. PFM+PWM/FPWM SOT23-6				
		👍 ETA8120/1 18V 2A 600kHz SW Freq. PFM+PWM/FPWM SOT23-6	ETA8113/03 18V 3A,COT 500kHz/1MHz PFM+PWM/FPWM SOT23-6				
		ETA8110/1 18V 2A 1M/1.4MHz SW Freq. FPWM SOT23-6	👍 ETA8223 18V 3A,COT 115uA Iq 600kHz SW Freq. PFM+PWM SOT23-6				
		ETA8212 18V 2A,COT,77uA Iq 600kHz, PFM+PWM SOT23-6					
		 ETA167X 18V 2A,COT 600kHz/1MHz PFM+PWM/FPWM SOT563					
24V	ETA2890 24V 1A 9uA Iq PFM+PWM 150k~1.8MHz DFN2x3-8						 ETA8162 24V 12A,COT SW Freq/Current limit Mode Selection FCQFN3.5x3.5-18
28V		👍 ETA2847/A 28V 2A,COT 500kHz SW Freq. PFM+PWM SOT23-6	 ETA2865/75 28V 3A,COT 100uA Iq 400kHz/600kHz PFM+PWM/FPWM SOT23-6				ETA1919/20 28V 20A,COT Controller 290~430kHz SW Freq. QFN3x3-16(1919) DFN3x3-10(1920)
		ETA2854/A 28V 2A,COT 500kHz SW Freq. FPWM SOT23-6					

主推产品/产品系列 Featured Product Series

Part No.	Iout Max (A)	Freq.(Hz)	VFB (V)	Feedback Accuracy	Mode	P2P	Package	Pin Configuration
ETA1477	2A	0.6M	0.768	2%	PFM	MPS TI	SOT23-6	
ETA1468/B	2A	1M	0.8/ 0.6	2%	Forced PWM			
ETA8110/8111	2A	1M/1.4M	0.6	1.5%	Forced PWM	SY	SOT23-6	
ETA8120	2A	0.6M	0.6	2%	PFM			
ETA1651G	2A	1.25M	0.6	1.5%	Forced PWM	MPS	SOT563	
ETA1652B	2A	0.66M	0.806	3%	PFM			
ETA1651	2A	1M	0.6	1.5%	Forced PWM			

ETA1458		0.6M	0.768	1.5%	PFM	MPS TI	SOT23-6	
ETA1448		0.6M	0.768	1.5%	Forced PWM			
ETA8103		1M	0.6	1.5%	Forced PWM	SY	SOT23-6	
ETA8213		0.6M	0.6	1.5%	PFM			
ETA1750		1M	0.6	2%	Forced PWM	MPS TI	SOT563	
ETA1753		1M	0.806	2%	PFM			

特色产品Featured Products

 ETA2865

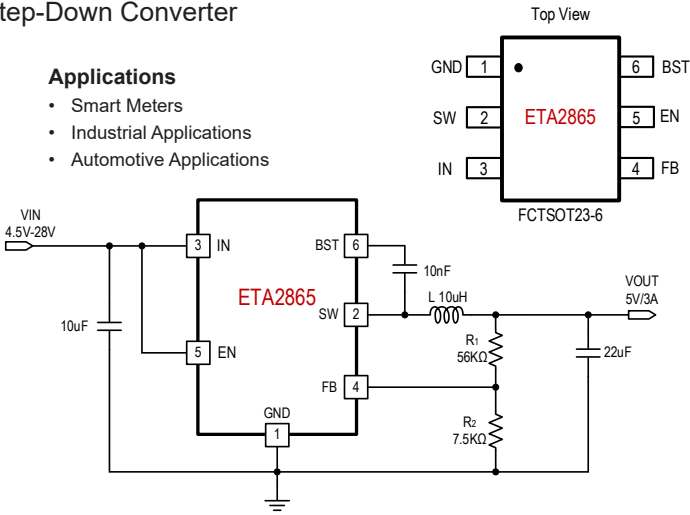
28V Input Voltage, 3A Synchronous Step-Down Converter

Features

- Wide Input Operating Range: 4.5V to 28V
- 30V Input Standoff Voltage
- High Efficiency up to 90%
- PFM Mode at Light Load
- Capable of Delivering 3A
- No External Compensation Needed
- COT Mode Control
- Logic Control Shutdown
- UVLO, OVP and Thermal shutdown
- Available in SOT23-6 Package
- Pb Free, RoHS and REACH Compliant
- Halogen Free and “Green” Device

Applications

- Smart Meters
- Industrial Applications
- Automotive Applications



>30V HV Buck

Output Current	<1A	1A	1.5 A	2A	2.5A	3A	4.5A	5A
V_{IN}								
35-38V			ETA2821 38V 1.5A non-sync 650kHz SW Freq. PFM+PWM SOT23-6			ETA2807 35V 3A,CC/CV 250kHz SW Freq. PFM+PWM FCTSOT23-6	ETA2806H 35V 4.5A,CC/CV 500kHz SW Freq. PFM+PWM ESOP-8	ETA2805/28331 35V 5A,CC/CV 120~1100kHz PFM+PWM ESOP-8
40-50V	ETA2850/2 42V 0.6A,COT 600k/2MHz SW Freq. 0.1% output ripple (2850) SOT23-6	ETA2853/L 40V 1A,COT 0.1% output ripple 500KHz/2MHz SOT23-6		ETA2893B 40V 2A 9uA ultra-low Iq 130k~1.1MHz PFM+PWM ESOP-8		ETA2892/3/4 40V 3A 9uA ultra-low Iq 130k~1.1MHz PFM+PWM/FPWM ESOP-8/ QFN3x4-24		
60-100V			ETA1860 60V 1.5A,COT 200k~500kHz PFM+FPWM ESOP-8		ETA1803 60V 2.5A,COT 200k~800kHz PFM+PWM/FPWM DFN3x3-10			
			ETA1805 85V 1.5A,COT 200k~800kHz PFM+FPWM ESOP-8					

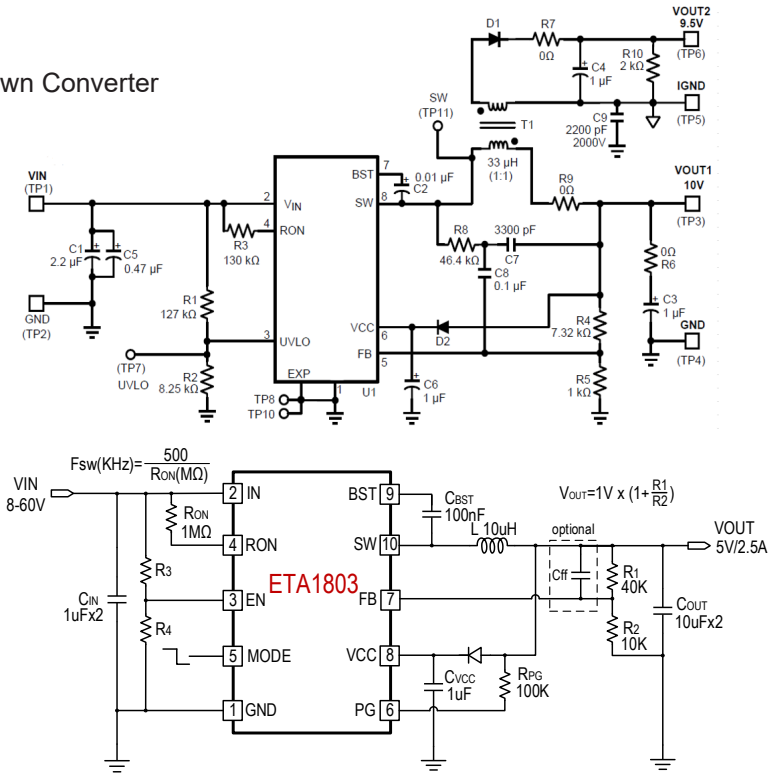
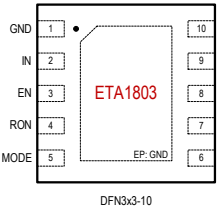
特色产品Featured Products

ETA1803

60V/2.5A, High Efficiency Synchronous Step-Down Converter

- Features
- Wide Input Range: 8V-60V
 - 65V Standoff Input Voltage
 - Up to 2.5A Output Current
 - Adaptive COT Control
 - Adjustable Switching Frequency
 - Selectable Power Save and Forced PWM Mode
 - Ultra-fast Load Transient Response
 - Internal Power FETs
 - Thermal Shutdown and UVLO
 - Available in DFN3x3-10 Package

- Applications
- Telecommunications infrastructure
 - Asset and fleet management systems
 - Video surveillance



02 低压差线性稳压器 LDO

Output Current	0.15A	0.2A	0.3A, 0.35A	0.5A	1A	>1A
V_{IN}						
5-8V LV	ETA5070 7V 150mA 0.7uA Iq DFN1x1-4/SOT23-5		ETA5051/2 5.5V 300mA 80dB PSRR 30uVRMS noise SOT23-5, fixed SOT23-6, adj	ETA5055 5.5V 500mA 4.5uA Iq, 94dB PSRR DFN 1x1-4 / 2x2-6 SOT23-5 /CSP-4/SOT89-3	ETA5060/1 5.5V 1A Low drop:140mV at 1A DFN1.2x1.6-8 SOT89-5 DFN2x2-6,-8	ETA5062/3 5.5V, 1.5A/2A Low Iq 12uA Low Dropout Fixed/Adj output ESOP8
10-30V MV		ETA5220 12V, 200mA 0.8uVRMS 69dB @ 1MHz MSOP-10/DFN3x3	ETA5050 6V 500mA 37 uA Iq SOT23-5	ETA50505 6V 300mA SOT23-3/DFN1x1-4/ SOT23-5	ETA5253/4 6V 500mA Dual Channel 37 uA Iq SOT23-6	
>30V HV		ETA5071 6.5V 300mA 1uA Iq, 69dB PSRR DFN1x1-4/SOT23-5	ETA5057 5.5V 350mA 80dB PSRR 30uVRMS noise DFN1x1-4/SOT353	ETA5255 5.5V 500mA 95dB PSRR 6uVRMS Noise CSP-4/DFN1x1-4/SOT23-5	ETA5056 6V 500mA 60dB PSRR Adj/fixed output SOT23-5/DFN1.6x1.6-6	
		ETA5020/5122/5123 16V/200mA 2uA Iq 66dB@1kHz DFN2x2-6/SOT23-5/89-5/23-3	ETA519x 24V 200mA LDO+ Load switch SOT23-6/SOP8/ESOP8	ETA5021 20V/500mA 2uA Iq 66dB@1kHz SOT89-3/ESOP8		
		ETA5080 80V 200mA 2.4uA Iq MSOP-8/SOT89-3	ETA504x 45V 300mA 2.5uA Iq, 70dB PSRR@1kHz SOT23-5/ SOT89-3/ ESOP8/ DFN 1.6x1.6-6			

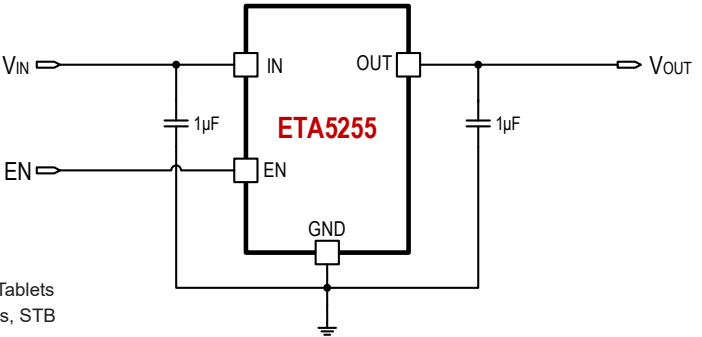
特色产品Featured Products

ETA5255

Ultra-High PSRR, Ultra-Low noise, 500mA Linear Regulator

- Features
- Operating Input Voltage Range: 1.9V to 5.5V
 - Fixed Output Voltage Range: 1.8V to 5V
 - Ultrahigh PSRR: Up to 95dB at 20mA and 1kHz
 - Ultralow Noise: 6uVRMS at 3.3V
 - Low-Dropout Voltage: 88mV at 3.3V/250mA
 - ±2% VOUT Accuracy Over Temperature
 - Excellent Load and Line Transient Responses
 - Stable with a Minimum 1uF Out Capacitor
 - Pb Free, RoHS and REACH Compliant
 - Halogen Free and "Green" Device

- Applications
- RF Power
 - Smartphones, Tablets
 - Cameras, DVRs, STB



03 LED驱动 LED Driver

Illumination

V _{IN} MAX	Linear	Boost			Buck
6V	ETA6012 2V-6V input Linear 1A constant current. ESOP-8, 4.0mm x 5.1mm P2P CN5711	ETA1611 2.7V-6V input, 22V OVP Non-Sync Boost 1MHz Fsw, 200mV FB 2.8A current limit, PCM PWM dim. SOT23-6	ETA1637 2.7V-6V input, 30V OVP Sync.Boost 0.6MHz Fsw, 50mA FB 1.5A current limit, PCM 0.1% PWM dim. SOT23-6, 3.0mm x 2.9mm P2P SY7208	ETA1165 2.7V-6V input, 40V OVP Non-Sync Boost 0.6MHz Fsw, 200mV FB 0.7A current limit, PCM PWM dim. SOT23-6, 3.0mm x 2.9mm P2P TPS61169	ETA3421B 3V-5.5V input, Sync. Buck 1.5MHz Fsw, 100mV FB 1.4A current limit, PCM 20kHz-100kHz PWM dim. SOT23-5, 3.0mm x 1.7mm P2P PAM2805
			ETA1617 2.7V-6V input, 30V OVP Non-Sync Boost 0.8MHz Fsw, 200mV FB 1A current limit, PCM 18kHz-100kHz PWM dim. SOT23-6, 3.0mm x 2.9mm P2P SY7208		
23V					ETA2863H 4.5V-23V input, Sync. Buck 1MHz Fsw, 100mV FB 3.9A current limit, PCM 20kHz-100kHz PWM dim. SOT23-6, 3.0mm x 2.9mm P2P SY8718A
36V					ETA2840 4.5V-36V input 0.6MHz Fsw, 160mV FB 1.5A current limit, PCM Analog dimming SOT23-6, 3.0mm x 2.9mm

Local Dimming Backlight

	FET Controller	64CH	128CH
Time Multiplex Local Dimming Backlight	NEW ETA9610 2-8 Scan FET controller, 20V VLED Max control 8 PFET De-ghosting function integrated Total solution with ETA9618/9 QFN-24 4x4	NEW ETA9618 16 x 90mA (With 4 Scan), Up to 20V VLED 15 bit PWM / Mixture Dimming Adaptive headroom Easy Layout and EMI Optimized QFN-24 4x4	NEW ETA9619 16 x 90mA (With 8 Scan), Up to 20V VLED 15 bit PWM / Mixture Dimming Adaptive headroom Easy Layout and EMI Optimized QFN-24 4x4
	16CH		
Direct Drive Local Dimming Backlight	ETA9616 16 x 90mA, > 50V VLED 15 bit PWM / Mixture Dimming Adaptive headroom Easy Layout and EMI Optimized Smart BFI QFN-24 4x4, FCQFN-24 3x3		

Smart RGB LED Driver

Wafer
 External LED
 RGB Integrated
 Autonomous Animation

	3CH		
30mA	NEW ETA9661W Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail Wafer level	NEW ETA9661C Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail DFN-10 2x2 with external LEDs	NEW ETA966H Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail DFN-6 1616/3535/5050 Integration with RGB

APD Bias

	Continuous	Sample & Hold
1CH	NEW ETA9382 60V 1A Boost, 1CH current mirror, Work with 50nF Cout p2p with MAX15059/SGM41285	

04 负载开关 Load Switch

Output Current V _{IN}	1A	2A	4A
6V	ETA6026/36 6V 70mΩ, 6.1V OVP 1A Fixed Current Limit Auto Discharge SOT23-5 nFault Flag	ETA6027/ETA6280/1/7 6V 70mΩ; 6.1V OVP High Current Limit Accuracy 75~2200mA Current limit Fault Report Auto Discharge SOT23-5, SOT23-6, DFN2x2-6	ETA6283 5.5V 50mΩ 2A/3.7A Current Limit Auto Discharge SOT563/DFN1.2x1.6-4
		ETA7021/7 5.5V 2A 65mΩ 7V Standoff <10nA Iq Output Discharge CSP-4(pitch 0.4mm/0.5mm)/ FCDFN2.3x2-6	ETA6286 5.5V 90mΩ 0.5~4A Current Limit Fault Report Auto Discharge SOT23-5/SOT23-6
5V		ETA6284/5 6V 70mΩ, 6.1V OVP High Current Limit Accuracy 75~2200mA Current limit SOT23-5	
		NEW ETA7019 5.5V 2A 80mΩ 0.2uA Iq Reverse blocking, Output Discharge CSP-4/ SOT23-5	
24V	ETA6030 24V 0.65A; 32V Standoff Current Limit Adjustable BIAS PIN SOT23-6		
	NEW ETA6040 24V 0.65A; 32V Standoff Current Limit Adjustable EN PIN SOT23-6		

特色产品Featured Products

ETA7019

Low ON Resistance Load Switch with Auto-Discharge Path

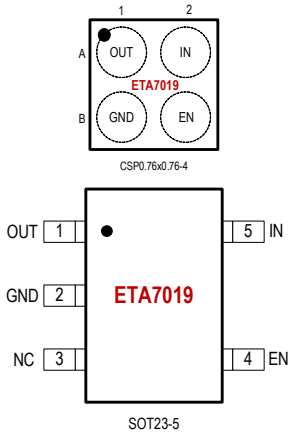
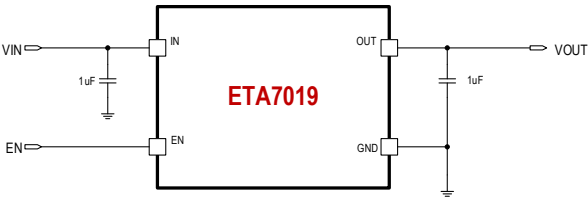
The ETA7019 is a small, low ON resistance switch, ultra-low quiescent current with controlled turn on. The device contains a power MOSFET that can operate over an input voltage range of 1V to 5.5V. The switch is controlled by an external logic pin, which is an active high enable. The ETA7019 contains a low-resistance on-chip resistor for quick discharge when the switch is turned off. Current is prevented from reverse flowing when the switch is off, and the output voltage is higher than the input voltage. The ETA7019 is available in CSP0.76x0.76-4 and SOT23-5 packages

Features

- Ultra-Low Quiescent and Shutdown Current
- 1V~5.5V Operating Voltage Range
- 2A Load Ability
- Low On-Resistance
- Revere Current Blocking
- Output Auto Discharge
- Active High EN pin
- Pb Free, RoHS and REACH Compliant
- Halogen Free and “Green” Device

Applications

- NB-IOT module
- Wireless communication module



05 多通道电源管理芯片 PMIC

General PMIC

2CHs	3CHs	4CHs	6CHs	7CHs
ETA5195/6/7/8 1 Load Switch + 1 LDO Load Switch 3.8V ~ 24V(5195/6/7) 3.8V ~ 30V(5198) Capable of delivering 1A LDO 1.1V ~ 12V Output(5195/6/7) 1.1V ~ 30V Output(5198) Capable of delivering 0.2A SOP8/SOT23-6	ETA9338 3 bucks 2.6V ~5.5V VIN Three Buck Channels as 1.5A,COT Independent ON/OFF Control QFN3x3-12 ETA9351/2 3 bucks 2.6V ~5.5V VIN Three Buck Channels as 2A,COT Feedback Voltage as 0.45V Independent ON/OFF Control QFN4x4-24	ETA9013 1 bucks +3 LDO One Buck 4.5V ~18V VIN Capable of delivering 2A Three LDO 1.8V ~ 5.5V VIN Capable of delivering 0.5A Independent ON/OFF Control QFN3x3-12	ETA9172 1 buck + 5 LDO (All channel with I2C Control) 2.7V ~5.5V VIN One Sync Buck Channels as 4A Four LDO as 1A One conventional LDO as 300mA QFN3x3-20 ETA9140 4 bucks+2LDOs 2.7V ~5.5V VIN Two Buck Channels as 4A,COT One Buck Channels as 3A One Buck Channels as 2A Two LDO Channels as 400mA 8 Programmable GPIOs Support Programmable Sequencing CSP2.72x2.72-36/ FOCSP3.35x3.1-34	ETA9145 4 Bucks + 3LDOs 2.7V ~5.5V VIN One Buck channel as 4A Three Buck Channels as 2.5A One LDO Channel as 800mA Two LDO Channels as 200mA 8 Programmable GPIOs Support Programmable Sequencing QFN5x5-40/CSP3.25x3.33-52
ETA3484 2 bucks 2.8V ~5.5V VIN Two Buck Channels as 1A Independent ON/OFF Control QFN3x3-12				
ETA8291 2 bucks 3.5V ~18V VIN Two Buck Channels as 2A,COT Independent ON/OFF Control QFN3x3-12				
ETA2810 1 buck + 1LSW 3V ~20V VIN 2uA Iq Buck Channels as 1.2A,COT LSW Channels as 200mA Independent ON/OFF Control DFN2x3-8				

Part No.	Vin Min (V)	Vin Max (V)	Regulated Outputs							Package	Configurability	Notes
			Total	Functional Composition	Iout Max (A)	Arch.	Isw Max (A)	Iout Max (A)	Iout Max (A)			
ETA5195	3.8	24	2ch.	1 LDO+1 Load Switch				0.2	1	SOP8	Hardware Configurable	门锁,电表应用
ETA5196	3.8	24	2ch.	1 LDO+1 Load Switch				0.2	1	SOP8/ SOT23-4	Hardware Configurable	电表应用
ETA5197	3.8	24	2ch.	1 LDO+ 1 Load Switch				0.2	1	SOP8/ SOT23-5	Hardware Configurable	电表应用
ETA5198	3.8	30	2ch.	1 LDO+1 Load Switch				0.2	1	SOP8/ SOT23-6	Hardware Configurable	电表应用
ETA3484	2.8	5.5	2ch.	2 Bucks	1					QFN3x3-12	Hardware Configurable	电表应用
ETA8291	3.5	18	2ch.	2 Bucks	2	COT				QFN3x3-12	Hardware Configurable	机顶盒方案应用
ETA9338	2.6	5.5	3ch.	3 Bucks	1.5	COT				DFN3x3-12	Hardware Configurable	安防摄像头/平板电脑/机顶盒方案应用
ETA9020	3	5.5	3ch.	1 Buck +1 LDO+1 PWM Controller	1	Sync.		0.5		QFN3x3-16	Hardware Configurable	机顶盒/ADSL Modems 方案应用
ETA9351	2.6	5.5	3ch.	3 Bucks	2	COT				QFN4x4-24	Hardware Configurable	智能TV/SSD/平板电脑 方案应用
ETA9013	4.5	18	4ch.	1 Buck+ 3 LDOs	2			0.5		QFN3x3-12	Hardware Configurable	门锁方案应用
ETA9172	2.7	5.5	6ch.	1 Buck+ 5 LDOs	4	I2C, Sync.		0.3(1) 1(4)		QFN3x3-20	Hardware Configurable	摄像头监控模块/ARM CPU 方案应用
ETA9145	2.7	5.5	7ch.	4 Bucks+ 3 LDOs	2.5(3) 4(1)			0.8(1) 0.2(2)		QFN5x5-40/ CSP3.25x3.33-52	Hardware Configurable Software Configurable	SSD/工业控制方案应用

Power Line Carrier PMIC

	One MCU Power Rail only	Two Power Rails	Three Power Rails
支持钳位功能可搭配低于40V的PA line Driver IC	ETA9198 1 buck + 1 boost + 1 Super Charger + 1 Clamper + 1 Internal Diode 6.3V ~41V POWER SUPPLY Upgrade from ETA907x Add Clamper Function Increase Buck current capability up to 1.5A DFN3x3-10 	ETA9099E Upgrade from ETA9198 Add Core Power(LV Buck) QFN3x4-24 	ETA9x99 Upgrade from ETA9099E Add External POWER SUPPLY(LDO) QFN3x4-24
	ETA907x 1 HV buck + 1 boost + 1 Super Charger 6V ~36V POWERSUPPLY Configurable SOC CORE POWER SUPPLY(HV Buck) Configurable SYSTEM POWER(Boost) Configurable Charger Voltage and Charger Current (Charger) OVP Monitor 	ETA9099C 2 buck + 1 boost + 1 Super Charger + 1 Internal Ideal Diode 6.3V ~36V VIN Upgrade from ETA9195 Add Core Power(LV Buck) QFN3x4-24 ETA9099Dxxx Upgrade from ETA9197 Add Core Power(LV Buck) QFN3x4-24 	ETA9x99A 2 buck + 1 boost + 1 Super Charger + 1 Internal Ideal Diode + 1 LDO 6.3V ~36V VIN Upgrade from ETA9195 Add Core Power(LV Buck) Add External POWER SUPPLY(LDO) QFN3x4-24 ETA9x99Bxxx Upgrade from ETA9099D AAdd External POWER SUPPLY(LDO) QFN3x4-24
无钳位功能搭配高于40V PA line Driver IC	ETA9195 1 buck + 1 boost + 1 Super Charger + 1 Internal Ideal Diode 6V ~36V POWER SUPPLY Upgrade from ETA907x Integrated Ideal Internal Diode and Boost FWD Increase Buck current capability up to 0.8A DFN3x3-10 ETA9197xxx Upgrade from ETA9195 Add POWER LOSS REPORT Function DFN3x3-10 		

Part No.	Vin Min (V)	Vin Max (V)	Multi-Functions Integration											Package
			Total	1.Ideal Diode	2.Clamper VClamper (V)	1.HV Buck Vout (V)	Iout (A)	2.LV Buck Vout (V)	Iout (A)	3.Boost Vout (V)	4.Super Cap Charger Icharge (mA)	Vcharger (V)	7.LDO Vout (V)	
ETA9071	6	36	3			3.1	0.45			12	50	2.55		ESOP-8
ETA9073	6	36	3			3.3	0.45			12	50	2.55		ESOP-8
ETA9195	6	36	4	■		3.3	0.8			11.5	50	2.55		DFN3x3
ETA9198	6.5	42	5	■	21.2	3.3	0.8			11.5	50	2.55		DFN3x3
ETA9099C	6.5	36	5	■		3.3	1.5	ajustable	1	11.5	50	2.55		QFN3x4-24
ETA9099E	6.5	36	6	■	21.2	3.3	1.5	ajustable	1	11.5	50	2.55		QFN3x4-24
ETA9199A	6.5	42	6	■		3.3	1.5	ajustable	1	11.5	50	2.55	2.7	QFN3x4-24
ETA9299A	6.5	42	6	■		3.3	1.5	ajustable	1	11.5	50	2.55	1.8	QFN3x4-24
ETA9399A	6.5	42	6	■		3.3	1.5	ajustable	1	11.5	50	2.55	1.5	QFN3x4-24
ETA9199	6.5	42	7	■	21.2	3.3	1.5	ajustable	1	11.5	50	2.55	2.7	QFN3x4-24
ETA9299	6.5	42	7	■	21.2	3.3	1.5	ajustable	1	11.5	50	2.55	1.8	QFN3x4-24
ETA9399	6.5	42	7	■	21.2	3.3	1.5	ajustable	1	11.5	50	2.55	1.5	QFN3x4-24

06 锂电池充电器 Li+ Battery Charger

Linear Charger

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Final Vbat (V)	Architecture	Vin Standoff (V)	PP Rdson (mΩ)	Switching Frequency (Hz)	OTG	Package	Notes
ETA4016	0.12	4.25	6	4.2	Linear	16	NA	NA	No	DFN2x2-8	截止电流低至1mA
ETA4116	0.12	4.25	6	4.35	Linear	16	NA	NA	No	DFN2x2-8	截止电流低至1mA
ETA4030	0.2	4.5	6.5	4.2	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能
ETA4061	0.5	4.5	5.5	4.2/4.35/4.4/4.45	Linear	6.5	NA	NA	No	SOT23-5	单灯指示, 10%/1%截止电流
ETA4063	0.5	4.5	5.5	4.2/4.35/4.4/4.45	Linear	6.5	NA	NA	No	FBP1x1-6	单灯指示, 10%/1%截止电流
ETA4064	0.5	4.5	5.5	4.2/4.35/4.4/4.45	Linear	36	NA	NA	No	SOT23-5/ SOT23-6	单灯指示, 10%/1%截止电流
ETA4662	0.5	3.73	5.85	I2C control	Linear	28	170	NA	No	FCQFN1.75x1.75-9/ PLQFN1.75x1.75-9	路径管理, 智能穿戴
ETA4662N	0.5	3.73	5.85	I2C control	Linear	28	170	NA	No	FCQFN1.75x1.75-9/ PLQFN1.75x1.75-9	路径管理, 智能穿戴, 默认上电关闭NTC功能
ETA4098	0.5	3.73	5.85	4.2/4.35	Linear	28	170	NA	No	FCQFN1.75x1.75-9/ PLQFN1.75x1.75-9	路径管理, 硬件复位, 充电状态指示, 充电截止电流可调
ETA6100	0.58	4.5	5.5	4.2	Sync.Buck+Linear	6.5	NA	1.5M	No	SOT23-6	1.5V/2.5A Buck&5V Linear Charger 兼容1节5号干电池的可充电锂电池
ETA4044	0.75	4.25	6	4.2	Linear	16	NA	NA	No	SOT23-5	单灯指示, 20%涓流
ETA4084	0.75	8.5	16	8.4	Linear	16	NA	NA	No	SOT23-6	双节通用线性充电, 单灯指示, 温度反折
ETA6017	1	3.85	5.5	4.2/4.35	Sync.Buck+Linear	6	NA	3M	No	QFN3x3-16	1.5V/2A Buck & 5V Linear Charger 兼容5号干电池的可充电锂电池
ETA4041	1	4.25	6	4.2	Linear	30	NA	NA	No	SOT23-5	单灯指示, 温度反折
ETA4042	1	4.25	6	4.2	Linear	30	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 温度反折
ETA4043	1	4.25	6	4.2	Linear	30	NA	NA	No	DFN2x3-8	双灯指示, NTC监控, 温度反折
ETA4045	1	4.25	6	4.2	Linear	30	NA	NA	No	ESOP8	双灯指示, NTC监控, 温度反折
ETA4047	1	4.25	6	4.2	Linear	30	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 振荡周期设置
ETA4048	1	4.25	6	4.2	Linear	30	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, OVP可调
ETA4049	1	4.25	6	4.2	Linear	30	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 振荡周期设置
ETA4051	1	4.25	6	4.35	Linear	30	NA	NA	No	SOT23-5	单灯指示, 温度反折
ETA4054	1	4.25	6	4.2	Linear	16	NA	NA	No	SOT23-5	单灯指示, 温度反折
ETA6200	1	3.2	6	4.16/4.31	Sync.Buck+Linear	28	NA	2.7M	No	DFN3x3-10	1.5V/3V Buck&5V Linear Charger 兼容1或2节5号干电池的可充电锂电池
ETA4060	1	4.5	6.4	4.4	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能
ETA4040	1	4.5	6.5	4.2	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能
ETA4050	1	4.5	6.5	4.35	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能
ETA4066	1	4.5	6.5	4.2/4.35/4.4/4.45	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能, COOL温度段电流可调
ETA4085	1	4.35	6.5	4.2	Linear	30	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 温度反折
ETA4140	1	4.5	6.5	4.2	Linear	30	NA	NA	No	DFN2x2-10	双灯指示, JEITA功能, 输入低功耗
ETA4036	1.2	4.25	6	3.65	Linear	16	NA	NA	No	ESOP8	磷酸铁锂电池

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Final Vbat (V)	Architecture	Vin Standoff (V)	PP Rdson (mΩ)	Switching Frequency (Hz)	OTG	Package	Notes
ETA4046	1.2	4.25	6	4.2	Linear	16	NA	NA	No	ESOP8/ DFN2x2-8/ DFN2x3-8/ SOT23-6	双灯指示, NTC监控, 温度反折, 20%涓流和截止电流
ETA4052	1.2	4.25	6	4.2	Linear	16	NA	NA	No	DFN3x3-10	单灯指示, NTC监控
ETA40543	1.2	4.25	6	4.35	Linear	16	NA	NA	No	ESOP8/ SOT23-6	双灯指示, NTC监控, 温度反折
ETA4056	1.2	4.25	6	4.2	Linear	16	NA	NA	No	ESOP8/ DFN2x2-8/ DFN2x3-8/ SOT23-6	双灯指示, NTC监控, 温度反折
ETA4065	1.2	4.25	6	4.2	Linear	36	NA	NA	No	ESOP8	双灯指示, NTC监控, 温度反折
ETA4055	1.2	4.25	6	Adj	Linear	16	NA	NA	No	ESOP8/ DFN2x2-8/ DFN2x3-8/ SOT23-6	充电截止电压可调, 双灯指示, 温度反折
ETA40563	1.2	4.45	6	4.35	Linear	16	NA	NA	No	DFN2x2-8	双灯指示, NTC监控, 温度反折
ETA4255	1.2	4.25	6	4.2	Linear	40	NA	NA	No	ESOP8	双灯指示, NTC监控, 温度反折
ETA4256	1.2	4.25	6	4.2	Linear	40	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 温度反折
ETA42564	1.2	4.25	6	4.4	Linear	40	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 温度反折
ETA4257	1.2	4.25	6	4.2	Linear	40	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 振荡周期设置
ETA4258	1.2	4.25	6	4.2	Linear	40	NA	NA	No	DFN3x3-10	双灯指示, NTC监控
ETA4259	1.2	4.25	6	4.2	Linear	40	NA	NA	No	DFN3x3-10	双灯指示, NTC监控, 振荡周期设置
ETA40561	1.2	4.25	9	4.2	Linear	16	NA	NA	No	ESOP8	双灯指示, NTC监控, 温度反折
ETA4058	1.2	4.45	9	4.35	Linear	16	NA	NA	No	DFN2x3-8	线性充电+LDO, 二合一

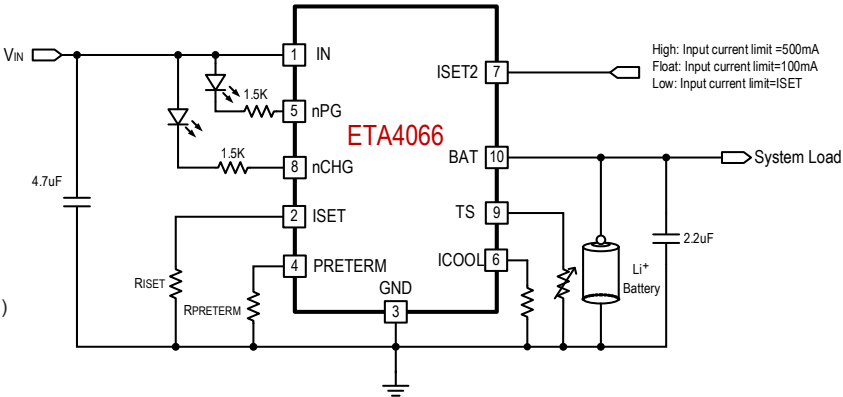
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ETA4066

30V Input Standoff, 1A Fully Integrated Linear Charger for 1 Cell Li-ion Battery

Features

- 30V Input Standoff Voltage
- 6.6 V Input Overvoltage Protection
- Input Voltage Dynamic Power Management
- 4.2V/4.35V Charge Termination Voltage
- Charge Current Programmable: Up to 1A
- Pin Selectable USB 100mA or 500mA Maximum Input Current Limit
- Programmable Termination Current and Pre-charge Current Threshold
- Operation over JEITA Range via Battery NTC
- Programmable Charge Current at Cool Stage
- Fixed 10 hours Safety Timer
- OUT Short-Circuit Protection and ISET Short Detection
- Automatic Termination and Timer Disable Mode (TTDM) for Absent Battery Pack with Thermistor
- Status Indication: nCHG (Charging/Done)
- Status Indication: nPG(Valid Input Present)
- Soft-start Limits in-rush Current
- 125° C Thermal Regulation
- 150° C Thermal Shutdown Protection
- Available in Small DFN2mm× 2mm -10 Package



Switching Charger

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Architecture	Vin Standoff (V)	Final Vbat (V)	PP Rdson (mΩ)	Switching Frequency (Hz)	OTG	Package	Notes
ETA6915	1.5	4.6	6	Sync.Buck	28	4.2/4.35	NA	1M	1A	DFN3x3-10/ QFN3x3-16	输入功率自适应, 过压保护, DFN封装纯硬件开关充, QFN封装支持I2C配置
ETA6918	1.5	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	CSP5x6 30	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6919	1.5	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	QFN4x4-24	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6094	2	4.5	5.5	Sync.Buck+OTG	6	4.2	NA	1.2M	1.5A	DFN2x3-8/ ESOP8	输入自动探测, 通用于便携锂电系统
ETA6098	2	4.5	5.5	Sync.Buck	32	4.2	NA	NA	No	DFN3x3-10	1uA ultra low VBAT standby current, 高耐压, 纯硬件开关充, 电子烟
ETA6198	2	4.5	5.5	Sync.Buck	32	4.35	NA	NA	No	DFN3x3-10	1uA ultra low VBAT standby current, 高耐压, 纯硬件开关充, 电子烟
ETA6298	2	4.5	5.5	Sync.Buck	32	4.4	NA	NA	No	DFN3x3-10	1uA ultra low VBAT standby current, 高耐压, 纯硬件开关充, 电子烟
ETA6917	2	3.9	13.5	Sync.Buck+OTG+NVDC+LDO*2	22	4.1-4.73	28	1.5M	1.2A	CSP5x6-30	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6920	2	3.9	13.5	Sync.Buck+OTG+NVDC+LDO*2	22	4.1-4.73	28	1.5M	1.2A	CSP5x6-30	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6002	2.5	4.4	5.5	Sync.Buck+NVDC	6	4.2	50	3M	No	ESOP8	DPPM, 输入功率自适应, 过压保护, 系统供电2.5A
ETA6003	2.5	4.4	5.5	Sync.Buck+NVDC	6	4.2	50	3M	No	QFN3x3-16	DPPM, 输入功率自适应, 过压保护, 系统供电2.5A
ETA6005	2.5	4.4	5.5	Sync.Buck+NVDC	6	4.35	50	3M	No	QFN3x3-16	DPPM, 输入功率自适应, 过压保护, 系统供电2.5A
ETA6095	2.5	4.5	5.5	Sync.Buck+OTG	6	4.2	NA	1.2M	1.5A	DFN2x3-8	充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6096	2.5	4.5	5.5	Sync.Buck	32	4.2	NA	NA	No	DFN3x3-10	高耐压, 纯硬件开关充
ETA6097	2.5	4.5	5.5	Sync.Buck	6.5	4.2	NA	NA	No	DFN2x3-8	1uA ultra low VBAT standby current, 高耐压, 纯硬件开关充
ETA6102	2.5	4.4	5.5	Sync.Buck+NVDC	6	4.35	50	3M	No	ESOP8	DPPM, 输入功率自适应, 过压保护, 系统供电2.5A
ETA6195	2.5	4.5	5.5	Sync.Buck+OTG	6	4.35	NA	1.2M	1.5A	DFN2x3-8	充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6196	2.5	4.5	5.5	Sync.Buck	32	4.35	NA	NA	No	DFN3x3-10	高耐压, 纯硬件开关充
ETA6071	2.5	2.7	7	Sync.Boost+OTG	16	8.4	NA	1M	2.4A	QFN3x3-20	5V升2节电池充电, 支持电池降压到输入端
ETA6072	2.5	2.7	7	Sync.Boost	16	8.4	NA	1M	No	ESSOP-10	5V升2节电池充电
ETA6073	2.5	2.7	7	Sync.Boost+OTG	16	8.4	NA	1M	2.4A	QFN3x3-20	5V升2节电池充电, 支持电池降压到输入端
ETA6912	3	4.6	6	Sync.Buck	20	4.2/4.35	NA	NA	No	DFN3x3-10	输入功率自适应, 过压保护, 3A纯硬件开关充
ETA6937	3	3.8	12	Sync.Buck+OTG	20	3.5-4.44	NA	1.3M	1A	CSP-20	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6947	3	3.8	12	Sync.Buck+OTG	20	3.5-4.76	NA	1.3M	1A	QFNFC1.7x2-20/ QFN3x3-16	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6921	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	QFN4x4-24/ CSP5x6 30	I2C, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6922	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	QFN4x4-24	I2C, 超低电池端漏电, 支持小型光伏板输入, 支持弱光 (5mA) 充电

锂电池充电器 Li+ Battery Charger(2/2)

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Architecture	Vin Standoff (V)	Final Vbat (V)	PP Rdson (mΩ)	Switching Frequency (Hz)	OTG	Package	Notes
ETA6963	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	1.2A	QFN4x4-24	I2C, BC1.2, 充电/OTG模式由引脚控制, D+/D-
ETA6964A	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	4.2/4.35/4.4	27	1.5M	1.2A	QFN4x4-24	BC1.2, 充电/OTG模式由引脚控制, D+/D-
ETA6903	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	4.2/4.35/4.4	27	1.5M	NA	PLQFN3x3-24	BC1.2, 充电模式由引脚控制, D+/D-
ETA6905	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	4.2/4.35/4.4	27	1.5M	1.2A	PLQFN3x3-24	BC1.2, 充电/OTG模式由引脚控制, D+/D-
ETA6965	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	1.2A	QFN4x4-24	I2C, 充电/OTG模式由引脚控制, D+/D-
ETA6973	3	3.9	13.5	Sync.Buck+OTG+NVDC	30	3.848-4.616	27	1.5M	1.2A	PLQFN3x3-24	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6968	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	1.2A	QFN4x4-24	I2C, BC1.2, 支持小型光伏板输入, 支持弱光 (5mA) 充电
ETA6906	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	4.2/4.35/4.4	27	1.5M	1.2A	PLQFN3x3-24	BC1.2, 支持小型光伏板输入, 支持弱光 (5mA) 充电
ETA69635	3.78	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	2A	QFN4x4-24	I2C, BC1.2, 充电/OTG模式由引脚控制, D+/D-
ETA6911	4	4.6	16	Sync.Buck	28	4.2/4.35	NA	NA	No	QFNFC1.7x2-20/ QFN3x3-16	输入功率自适应, 过压保护, 4A纯硬件开关充

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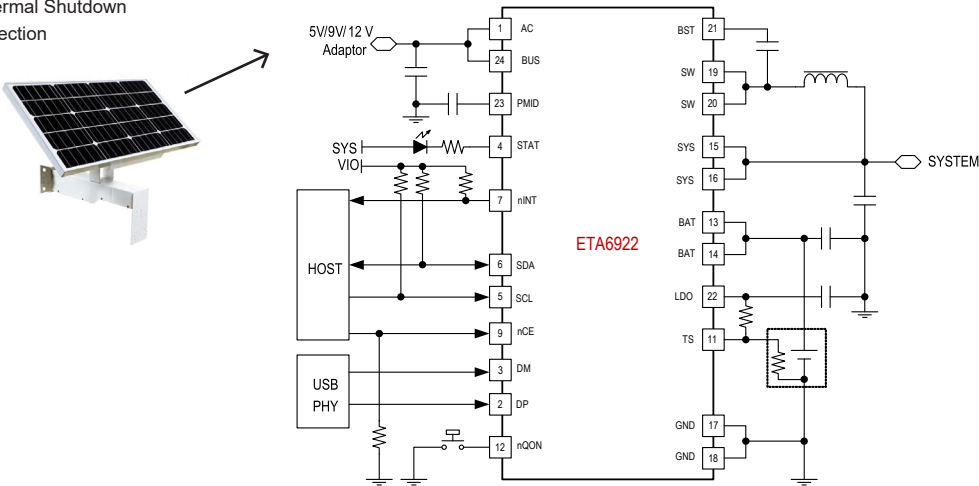


ETA6922

1-Cell Battery Charger with Power Path Management

Features

- 20V standoff voltage
- High-Efficiency, 1.5MHz, Synchronous Switching Buck Charger
 - 92.5% Charge Efficiency at 1A from 5V Input
 - Programmable PFM Mode for Light Load
- Supports USB On-The-Go (OTG)
 - Programmable Current Limit Boost Converter with Up to 1.2A Output
- Wide Range Single Input to Support both USB Input and High Voltage Adapters
 - Support 3.9V to 13.5V Input Voltage Range With 22V Absolute Maximum Input Voltage Rating
 - Programmable Input Current Limit (100mA to 3.2A With 100mA Resolution)
- Narrow VDC (NVDC) Power Path Management
- BATFET Control to Support Ship Mode, Wake Up and Full System Reset
- Flexible I2C Mode for Optimal System Performance
- High Integration Includes All MOSFETs, Current Sensing and Loop Compensation
- 2.5uA Low Battery Leakage Current in Ship Mode and **6uA** Battery Leakage Current in System Standby Mode
- Support **5mA** weak power input
- Safety
 - Battery Temperature Sensing for Charge and Boost Mode
 - Thermal Regulation and Thermal Shutdown
- Input UVLO and Overvoltage Protection
- Package: QFN4x4-24L



07 升压稳压器 Boost

Part No	Vout Min (V)	Vout Max (V)	Isw Max(A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Feature		Architecture	Vfb (V)	Switching Frequency (HZ)	Package	Notes
							Low Iq	Power Good					
ETA1062	3.3/5	3.3/5	1	0.6	5	1.2	■		Sync.True-shutoff	NA	1.4M	SOT23-5	2W output, 穿戴设备, NBIOT物联网
ETA1060	1.11	5	1	0.6	5	1.2	■		Sync.True-shutoff	1.11	1.4M	SOT23-6/DFN2x2-6	2W output, 穿戴设备, NBIOT物联网
ETA1061	1.11	5	1	0.55	5	1	■		Sync.True-shutoff	1.11	1.4M	SOT23-6/DFN2x2-6	2W output,穿戴设备, NBIOT物联网
ETA1064	1.11	5	1	0.55	5	1	■		Sync.True-shutoff	1.11	1.4M	SOT23-6/DFN2x2-6	2W output,穿戴设备, NBIOT物联网
ETA1035	2.1	5	1.5	0.6	4.5	40			Sync.True-shutoff	0.6	2M	DFN2x2-6	3W output power with Li+ battery, 输出电压可调
ETA1036	2.1	5	1.5	0.6	4.5	40			Sync.True-shutoff	NA	2M	SOT23-5	3W output power with Li+ battery 输出电压2.1V/3.3V/5V,
ETA1160D	1	5	1.6	0.75	5	1.2	■		Sync.True-shutoff	1	1M	SOT23-6/DFN2x2-6	Ultra low Iq with true-shutoff, 穿戴设备, NBIOT物联网
ETA1038	1.8	5	2.8	1.8	4.5	40			Sync.True-shutoff	1.17	1M	SOT23-6	5V/1.5A ouput with Li+ battery, 输出电压可调
ETA1136	5	5	2.8	1.8	4.5	40			Sync.True-shutoff	NA	1M	SOT23-5	Fixed 5V with 1.5A output with Li+ battery
ETA1032	5	5	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	5V fixed output with Li+ battery, NFC应用/通用应用
ETA1161	1	5	3.1 (NMOS)	0.75	5	1.2	■		Sync.True-shutoff	1	1M	CSP-6/DFN2x2-6	Ultra low Iq with true-shutoff, Support BOOST Mode/ Down Mode/ Pass-Through Mode
ETA1039	5	5	Adjustable	1.8	4.5	40			Sync.True-shutoff	NA	1M	SOT23-6	1.5A output with Li+ battery
ETA1090	1.8/3.1	5	Adjustable	1.8/3.1	5.5	50			Sync.True-shutoff	0.6	1M	DFN3x3-12	5V High Current, For 3G/4G module and general purpose
ETA1092	1.8/3.1	5	Adjustable	1.8/3.1	5.5	50			Sync.True-shutoff	0.6	1M	QFN3x3-16	5V/3A, Freq.jitter mode available, UVLO电压可配置, 各类通讯模块
ETA1093	1.8/3.1	5	Adjustable	1.8/3.1	5.5	10000			Sync.True-shutoff	0.6	1M	QFN3x3-16	5V/3A Forced PWM, BC1.2, Apple 2.4A,Samsung compatible
ETA1096	1.8	5	Adjustable	1.8	5.5	50			Sync.True-shutoff	0.6	1M	ESOP8	锂电池升压5V/3A, 通用升压
ETA1132	5.4	5.4	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	NFC应用/通用应用
ETA1133	5.4	5.4	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	NFC应用/通用应用
ETA1188	3.6	12	Adjustable	2.7	12	200			Sync.True-shutoff	1.2	0.05-3.4M	FCQFN3x3-20	9V/3A, High power with I2C control, 大功率, 智能音响等
ETA1189	3.6	12.6	Adjustable	3.1	9.5	200			Sync.True-shutoff	1.2	500/1000K	FCQFN3x3-20	9V/3.5A, High power with I2C control, 大功率, 智能音响等
ETA1066	3	13	2.2	1.8	12	180			Sync.True-shutoff	1.045	900K	DFN2x2-8	Dual Outputs with 12V LDO and Boost, PLC模块, 后备系统电源等
ETA1067	3	13	2.2	1.8	12	180			Sync.True-shutoff	1.05	900K	DFN2x2-8	Dual Outputs with 12V LDO and Boost, PLC模块, 后备系统电源等
ETA1043	3	14	0.8	2.5	6.5	40			Sync.True-shutoff	0.2/0.8	1.2M	DFN2x2-8	14V/100mA Sync. Boost/OLED/ LED driver for wearable/IOT
ETA1611	Vin	20	2.8	2.7	6	250			Non-Sync.	0.2	1M	SOT23-6	22V/2A High Output Voltage
ETA1621	Vin	20	2.8	2.5	6	250			Non-Sync.	0.6	1M	SOT23-6	22V/2A High Output Voltage
ETA1625	Vin	20	2.8	2.5	6	250			Non-Sync.	0.6	550K	SOT23-6	22V/2A High Output Voltage
ETA1627	Vin	36	1	2.7	6	300			Non-Sync.	NA	800K	SOT23-6	High Output Voltage for LED Series, Boost for TFT, 异步多串LED背光驱动, 调光精度0.1%

08 过压保护器 Over Voltage Protector

Part No	Description	Vin Min (V)	Vin Max (V)	Switch Rdson (mΩ)	Response Time (ns)	OVP trig (V)	Package	Notes
ETA7016	36V/33mΩ high side OVP with 500V 7V TVS	3.35	7	33	100	1.26	DFN3x3-12	OVP level adjustable
ETA7018	20V/12mΩ low side OVP	5	20	12	100	0.5	SOT23-6	OVP level adjustable
ETA7011	20V/10mΩ(40mΩ) high side OVP	3.35	20	40/10	100	1.26	SOT23-6	OVP level adjustable
ETA6123	26V/40mΩ high side OVP with 80V TVS	4.1	24.5	40	60	5.85 (Fix)	FCQFN1.2x1.2-9/ SOT23-6	多个过压保护点可选
ETA6122	32V/45mΩ high side OVP	4.1	28	45	60	1.2	CSP2x3-6/ SOT23-5	OVP level adjustable
ETA4034	30V/2A OVP+OCP	3.5	30	130	70	6.15 (Fix)	DFN2x2-8	ILIM adjustable, NTC温度检测
ETA4032	30V/2A OVP+OCP	3.5	30	130	70	6.15 (Fix)	DFN2x2-8	ILIM adjustable
ETA7028	36V/30mΩ low side OVP	3.6	36	30	68	1.27	SOT23-6	OVP level adjustable
ETA7008	36V/34mΩ low side OVP	2	36	34	100	0.5	SOT23-6/DFN2x2-6	OVP level adjustable
ETA7014	36V/35mΩ high side OVP	4	36	35	100	1.26	SOT23-6/DFN2x2-8	OVP level adjustable
ETA7025	36V/40mΩ high side OVP	4	36	40	100	6.25 (Fix)	SOT23-3/ SOT23-6/DFN2x2-8	OVP level adjustable
ETA7022	36V/80mΩ high side OVP	4	36	80	100	6.25 (Fix)	SOT23-3/ SOT23-6/DFN2x2-8	OVP level adjustable
ETA7212	36V/110mΩ high side OVP+OCP	4	36	110	30	6.25 (Fix)	SOT23-6	OVP level adjustable
ETA7012	36V/220mΩ high side OVP+OCP	4	36	220	100	6.25 (Fix)	SOT23-3/ SOT23-6/DFN2x2-8	OVP level adjustable
ETA7112	36V/220mΩ high side OVP+OCP	4	36	220	100	5.5 (Fix)	DFN1.2x1.2-4	OVP level adjustable
ETA7024	50V/40mΩ high side OVP	4.5	50	40	200	1.26	SOP7	OVP level adjustable

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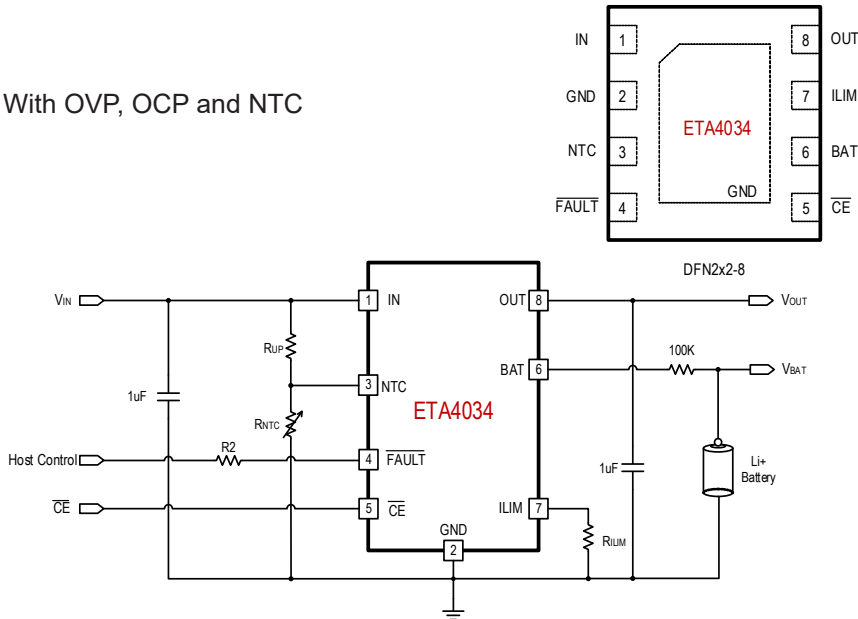


ETA4034

Li+ Charger Front-End Protection IC With OVP, OCP and NTC

Features

- OVP功能:输入耐压32V, 默认6.15V过压保护
- OCP功能:100-2A过流保护可调
- 130mΩ内阻
- 带Fault功能, 支持过压过流过温指示
- 带NTC保护, 市面首创
- 超小DFN2*2-8封装



Inductive Cell Balancer

Part No	Architecture	Vin Min (V)	Vin Max (V)	No. of batts	No. of ICs	Balance Current (A)	Accurate (mV)	Switching Frequency (Hz)	Iq (uA)	Package	Notes
ETA3000	Sync.	3.75	12	n(non-limited)	n-1	2	30	1M	2	SOT23-6/DFN2x2-8	1~4Cells, 超低功耗, 主动均衡
ETA3006	Sync.	5.6	20	n(non-limited)	n-1	2	10	500k	2	SOP-8/DFN3*3-10	超低功耗, 主动均衡, support all battery types
ETA3002	Sync.	3.75	20	n(non-limited)	n-1	10	10	500k	2	MSOP-10	超低功耗, 主动均衡, support all battery types
ETA3005	Sync.	5.6	20	n(non-limited)	n-1	10	10	500k	2	MSOP-10	超低功耗, 主动均衡, support all battery types

Fuel Gauge

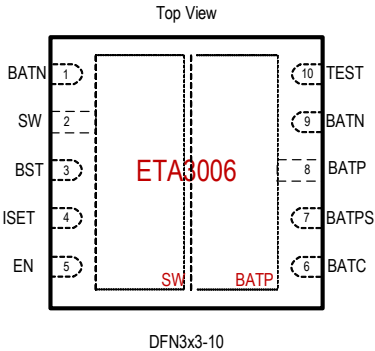
Part No	Architecture	No. of batts	Iq(uA)	Package	Notes
ETA9002	电压型	1	5 (Normal)/2 (Sleep)	DFN2x2-8/DFN2x3-8	温度检测, SOC, 充电cycle数, 低电量报警, SOC/温度报警, 智能穿戴、IPC、手持设备等

特色产品Featured Products

ETA3006

Inductive Cell Balancer IC with Balancing Current Up to 2A

ETA3006 is an inductive cell balancer. Unlike conventional passive balancing technique, ETA3006 utilizes a control scheme with an inductor to shuffle currents between two cells until the cells are balanced. Due to the switching nature, the heat and power dissipation generated in conventional linear balance technique are greatly reduced. The balance time is also significantly reduced due to higher balancing current not being limited by package thermal dissipation. ETA3006 consumes only 2μA ultra-low current from batteries in standby mode, extending the battery shelf time. The final balanced voltages of both cells are also highly accurate which enhances the performance and lifetime for the batteries connected in series. ETA3006 can also be used in multiple cells stacking with even number of cells. ETA3006 includes protection features similar to precondition in battery charging, that is when one cell's voltage is grossly lower than the other, the balancing current is reduced to a safe level until the lower voltage cell is charged up.

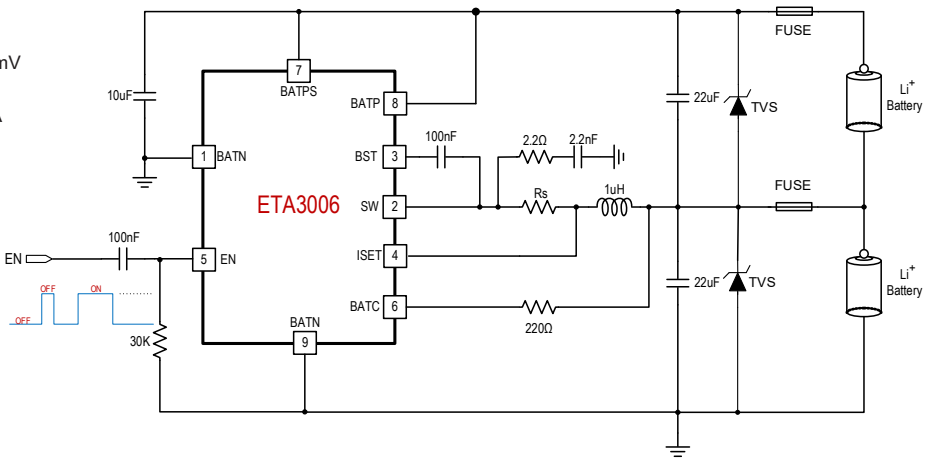


Features

- 20V Standoff Voltage
- Inductive, switching control scheme
- Unbalance detection threshold: ±50mV
- Accurate balanced voltages down to ±10mV
- Low sleeping supply current, 5μA
- Programmable balancing current up to 2A
- Switching Frequency: 500kHz
- Battery over voltage protection
- Mosfets integrated
- Fewer external components needed
- SOP-8 Package

Applications

- Multi-cells System
- Battery Pack
- Portable Equipment and Instrumentation
- Battery Backup Systems
- E-Cigarette



Power Module LV Buck

Part No	Iout Max(A)	Vin Min(V)	Vin Max(V)	Vout Min(V)	Vfb(V)	Switching Frequency(HZ)	Iq(uA)	Package
EM3707	1	2.1	5.5	1.2		1.2M	0.36	FCLGA3x3-8
EM3707A	0.5	2.1	5.5	0.7		1.2M	0.36	FCLGA3x3-8
EM3707B	0.5	2.1	5.5	0.5		1.2M	0.36	FCLGA3x3-8
EM3425	0.6	2.6	7		1.11	1.4M	1.8	PDFN2.5x2.5-6
EM3435	0.6	2.6	7		1.11	1.4M	1.8	PDFN2.5x2.5-6
EM3485	1.5	2.6	7	0.6	0.6	2M	20	PLDFN2.5X3-6
NEW EM3799A	0.6	2.1	5.5	0.6	0.6	1.5M	0.6	FCLGA-2.0*1.5
NEW EM3799B	1	2.1	5.5	0.6	0.6	4M	0.6	FCLGA-2.0*1.5
NEW EM8103	3	4	18	0.6	0.6	1M	230	PLQFN5X5-9
NEW EM3520	3/4	2.4	5.5	0.6	0.6	2.4M	14	LGA2.5x2.5-14 PLQFN2.5x2.5-14

Power Module Charger

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Final Vbat (V)	Architecture	Vin Standoff (V)	PP Rdson (mΩ)	Package	Notes
EM6911	2.1	3.8	12	4.2, 4.35, 4.4	Module	20	60	PLQFN3X3	截止电流低至1mA
EM6911V435	2.1	3.8	12	4.35	Module	20	60	PLQFN3X3	截止电流低至1mA
EM6911V440	2.1	3.8	12	4.4	Module	20	60	PLQFN3X3	双灯指示, JEITA功能

Power Module Li+ Battery to Dry Battery IC

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Final Vbat (V)	Vin Standoff (V)	Buck Vin Min (V)	Buck Vin Max (V)	Vout (V)	Iout Max (A)	Switching Frequency (Hz)	Package
EM6200B	0.5A	3.2V	6V	4.2V, 4.35V	28V	3	5	1.5, 3V	2.2, 1.5A	2.7M	PLQFN2.5x3-11
EM6200C	0.5A	3.2V	6V	4.2V, 4.35V	28V	3	5	1.5, 3V	3.5, 2A	2.7M	PLQFN2.5x3-11

EM3707

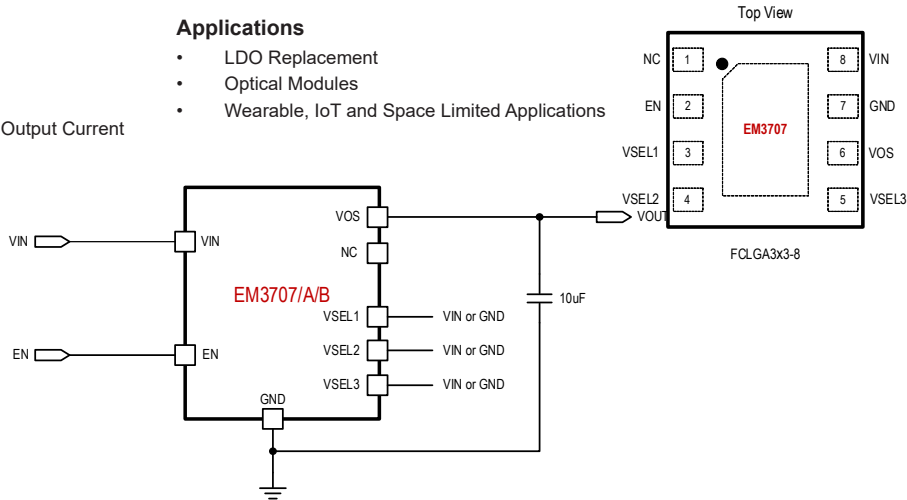
450nA Ultra-low Iq, COT Synchronous Buck Module with Integrated Inductor and Capacitor

Features

- Wide Input Voltage Range: 2.1V-5.5V
- Less than 450nA Typical Quiescent Current
- Integrated Inductor and Capacitor
- Up to 1A(EM3707) and 500mA(EM3707A/B) Max Output Current
- Up to 94% Efficiency
- 1.2MHz Switching Frequency
- Programmable Output Voltage
- Adaptive COT Control
- Ultra-fast Load Transient Response
- High Efficiency PFM Mode at Light Load
- Over Current Protection
- Over Temperature Protection
- Similar DFN3x3 Package
- 1.2mm and 0.91mm Package Thickness
- Pb Free, RoHS and REACH Compliant
- Halogen Free and " Green" Device

Applications

- LDO Replacement
- Optical Modules
- Wearable, IoT and Space Limited Applications



11 电压电平转换器 Level Shift

Part No	Channel	Push-pull date rate Max	Open-drain date rate Max	A ports Voltage (V)	B ports Voltage (V)	Package	Notes
ETA4553	2bits	24Mbps	2Mbps	1.65-5.5	2.3-5.5	DFN1.4x1.0-8 DFN2x2-8 SOT23-8	push-pull/open-drain 应用于1.8V,2.5V,3.3V,5V逻辑系统
ETA4554	4bits	24Mbps	2Mbps	1.65-5.5	2.3-5.5	QFN2x2-14 TSSOP-14 QFN1.7x2-12 QFN3x3-16 QFN3.5x3.5-14 FOB1.87x1.37x0.58-12 QFN1.8x1.8-12	push-pull/open-drain 应用于1.8V,2.5V,3.3V,5V逻辑系统
ETA4555	8bits	24Mbps	2Mbps	1.65-5.5	2.3-5.5	QFN4.5x3.5-20 TSSOP-20	push-pull/open-drain 应用于1.8V,2.5V,3.3V,5V逻辑系统
ETA4573	2bits	100Mbps	NA	1.2-5.5	1.65-5.5	DFN1.4x1.0-8/SOT23-8	push-pull,high speed 应用于1.2V,1.5V,1.8V,2.5V,3.3V,5V逻辑系统
ETA4574	4bits	100Mbps	NA	1.2-5.5	1.65-5.5	QFN2x2-14 TSSOP-14 QFN1.7x2-12 QFN3x3-16 QFN3.5x3.5-14 QFN1.8x1.8-12	push-pull,high speed 应用于1.2V,1.5V,1.8V,2.5V,3.3V,5V逻辑系统
ETA4575	8bits	100Mbps	NA	1.2-5.5	1.65-5.5	QFN4.5x3.5-20 TSSOP-20	push-pull,high speed 应用于1.2V,1.5V,1.8V,2.5V,3.3V,5V逻辑系统
ETA4582	2bits	420Mbps	NA	1.1-5.5	1.1-5.5	DFN1.4x1.0-8/ MSOP8	push-pull,high speed 应用于1.1V,1.5V,1.8V,2.5V,3.3V,5V逻辑系统

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ETA4582

Dual-Bit Dual-Supply Bus Transceiver with Configurable Level Shifting

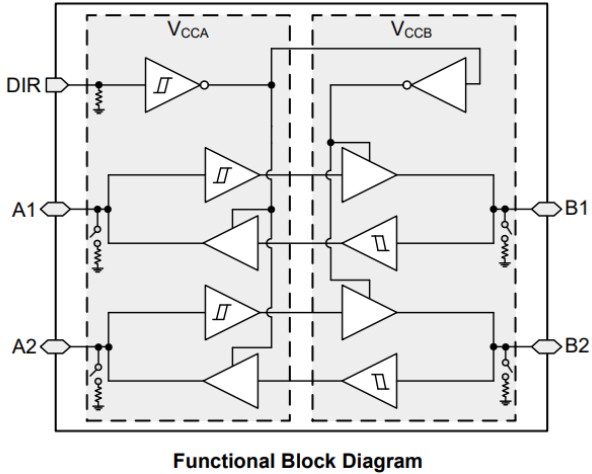
ETA4582 is a dual-bit, dual-supply noninverting bidirectional voltage level translation device. Ax pins and control pin (DIR) are referenced to VCCA logic levels, and Bx pins are referenced to VCCB logic levels. The A port is able to accept I/O voltages ranging from 1.1 V to 5.5 V, while the B port can accept I/O voltages from 1.1 V to 5.5 V. A high on DIR allows data transmission from A to B and a low on DIR allows data transmission from B to A. See Device Functional Modes for a summary of the operation of the control logic. ETA4582 is available in the MSOP8 1.95 mm × 1.00 mm DFN (8) 1.4.0 mm × 1.00 mm. The versions are specified for operation from −40°C to +125°C.

Features

- Fully configurable dual-rail design allows each port to operate from 1.1 V to 5.5 V
- Low power consumption
 - 3-μA maximum (25°C)
 - 6-μA maximum (−40°C to 125°C)
- Schmitt-trigger inputs allow for slow or noisy inputs.
- VCC Isolation and VCC Disconnect (Ioff-float), If either VCC supply is < 100 mV or disconnected, all I/O's get pulled-down and then become high-impedance.
- Ioff supports partial-power-down mode operation.
- Control logic (DIR) are referenced to VCCA

Applications

- Eliminate slow or noisy input signals
- Driving indicator LEDs or Buzzers
- Debouncing a mechanical switch
- Infotainment head unit
- ADAS fusion



Functional Block Diagram

12 放大器Amplifier

Precision Operational Amplifier

Part No	Description	Channels	VDD supply range	IQ (uA)	VOS (uV)	VOS Drift (μV/°C)	GBW (KHZ)	SR (V/uS)	noise	Package
ETA45001	Zero-Drift, Low-Offset, Rail-to-Rail I/O Single Channel Operational Amplifier	1	1.8~5.5 V	15	10	0.05	300	0.15	55 nV/√Hz at 1KHZ	SOT23-5 UTDFN1.6*1.6-6L
ETA45002	Zero-Drift, Low-Offset, Rail-to-Rail I/O Dule Channel Operational Amplifier	2	1.8~5.5 V	15	10	0.05	300	0.15	55 nV/√Hz at 1KHZ	SOP-8 DFN3*3-8L DFN2*2-8L

Comparator

Part No	Description	Channels	VDD supply range	IQ (uA/CH)	VOS (uV)	ISC (mA)	TPD-HL (ns)	TPD-LH (ns)	Output mode	Package
ETA49031	High-Precision and Low quiescent Current Single Automotive Comparators	1	1.8V-5.5V	15	500	100	90	110	Push Pull mode	SOT23-5 SC70-5 UTDFN1.6*1.6-6L

Current-sense Amplifier

Part No	Description	Channels	VDD supply range	IQ (uA)	VOS (uV)	VOS Drift (μV/°C)	Gain	Gain Error	GBW (KHZ)	SR (V/uS)	noise	Package
NEW ETA45016	36V, Bidirectional, Zero-Drift Series, High-Precision, Low-Power Current-Sense Amplifier	1	2.7 V to 36 V	100	50	0.1	50	±0.02%	60	0.4	25 nV/√Hz at 1KHZ	SC70-6

13 传感器Sensor

Hall Effect Sensor

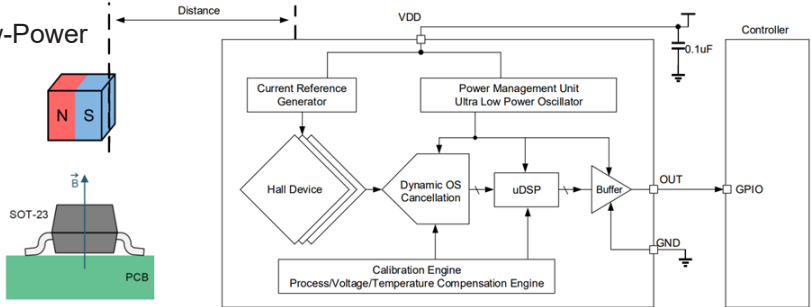
Part No	Description	Device Type	Operation point	Release point	VDD supply range	Sampling Period/ Update Rate	Supply Current (Averaged)	Package
ETA40111	Reinforced ESD/Latchup Protected Ultra-Low-Power Omnipolar Hall-Effect Sensor	Omnipolar	±18GS	±10GS	1.65 to 5.5V	1S/1Hz	450nA	SOT23-3
ETA40112	Reinforced ESD/Latchup Protected Ultra-Low-Power Omnipolar Hall-Effect Sensor	Omnipolar	±22GS	±12GS	1.65 to 5.5V	100ms/10Hz	0.75uA(VDD=3.3V) 0.45uA(VDD=1.8V)	DFN1*1-4L SOT23 -3
ETA40113	Reinforced ESD/Latchup Protected Ultra-Low-Power Omnipolar Hall-Effect Sensor	Omnipolar	±35GS	±22GS	1.65 to 5.6V	50mS/20Hz	1.05uA(VDD=3.3V) 0.70uA(VDD=1.8V)	SOT23 -3 TO-92
ETA40114	Reinforced ESD/Latchup Protected Ultra-Low-Power Omnipolar Hall-Effect Sensor	Omnipolar	±60GS	±45GS	1.65 to 5.7V	10mS/100Hz	3.50uA(VDD=1.8V)	SOT23 -3 TO-92

ETA40112

Reinforced ESD/Latchup Protected Ultra-Low-Power Omnipolar Hall-Effect Sensor

Features

- Omnipolar Detection
- Industrial-leading low-power consumption
- Very high sensitivity
- Operation down to 1.65V
- Robust Hysteresis over temperature and supply voltage
- Reinforced ESD protection



14 电机驱动 Motor Driver

Gate Driver

Part No.	VS_max (V)	Isource/Isink (mA)	Phase	Interface	VDD_UVLO (V)	VBS_UVLO (V)	Deadtime (nS)	Package
ETA85601	650	300/600	1	HIN, LIN	9/8.2	8.7/7.7	350	SOP8
ETA85602	650	300/600	1	HIN, /LIN	9/8.2	8.7/7.7	350	SOP8
ETA85603	650	300/600	1	IN, SDB	9/8.2	8.7/7.7	350	SOP8
ETA85604	650	300/600	1	HIN, LIN	9/8.2	8.7/7.7	0	SOP8
ETA85691	650	300/600	1	HIN, LIN	9/8.2	8.7/7.7	350	SOP8
ETA85311	300	1200/1500	1	HIN, /LIN	6.9/6.4	6.3/5.8	250	SOP8
ETA85312	300	1200/1500	1	HIN, LIN	6.9/6.4	6.3/5.8	250	SOP8
ETA85313	300	1200/1500	1	HIN, LIN	6.9/6.4	6.3/5.8	0	SOP8
ETA85314	300	1500/1800	3	HIN, /LIN	4.6/4.3	4.6/4.3	250	TSSOP20/ QFN24
ETA85315	300	1500/1800	3	HIN, LIN	4.6/4.3	4.6/4.3	250	TSSOP20/ QFN24
ETA85315	300	1500/1800	3	HIN, LIN	4.6/4.3	4.6/4.3	0	TSSOP20/ QFN24
ETA85605	650	200/350	3	/HIN,/LIN	8.9/8.2	8.9/8.2	320	SOP28
ETA85606	650	200/350	3	HIN, LIN	8.9/8.2	8.9/8.2	320	SOP28
ETA85607	650	200/350	3	/HIN,/LIN	11.7/9.8	11.7/9.8	320	SOP28
ETA85608	650	200/350	3	HIN, LIN	11.7/9.8	11.7/9.8	320	SOP28
ETA85621	650	2500/3000	1	HIN, LIN, SD	9/8.2	8.7/7.7	0	SOP16(WB)
ETA85622	650	4500/4500	1	HIN, LIN, SD	9/8.2	8.7/7.7	0	SOP16(WB)

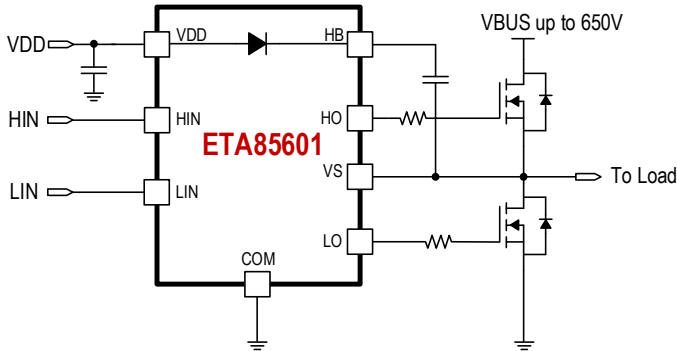
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ETA8560X

650V, 300/600mA High Reliability Half Bridge Gate Driver

- Features
- Fully operational up to 650V bus voltage
 - Peak output current of 300mA source, 600mA sink capability
 - Bootstrap diode integrated, reduced system BOM cost
 - Up to 50V/nS switching node dv/dt supported
 - Logic operational up to -7V on VS pin
 - Independent UVLO for high side and low side power supply
 - Shoot-through prevention and dead time

- Applications
- Small Home appliance
 - High power gardening tools
 - 3 Phase High voltage BLDC
 - Lighting, LED power supply
 - DC-to-AC Inverter
 - Induction Heating



Brushed DC (BDC) Motor Driver

Part No.	# of H bridge	VDD	Icont (A)	Ipeak (A)	Rdson_HS (mΩ)	Rdson_LS (mΩ)	Interface	Internal reference	Fault reporting	Current Sense (IPROPI/SET)	Package	Application
ETA86141	1	6.5~36	1.8	3.6	250	230	IN1,IN2				ESOP8	扫地机、擦窗机、小洗衣机等清洁电器、智能窗帘
ETA86142	1	6.5~36	1.8	3.6	250	230	IN1,IN2	■	■		ESOP8	
ETA86143	1	6.5~36	1.8	3.6	250	230	PH,EN				ESOP8	
ETA86121	1	6.5~28	1.3	3.4	320	280	IN1,IN2	■	■	■	SOP8	智能断路器、小家电
ETA86122	1	6.5~28	1.6	3.5	320	280	IN1,IN2			■	ESOP8	
ETA86123	1	6.5~28	1.6	3.5	320	280	PH, EN	■	■	■	ESOP8	

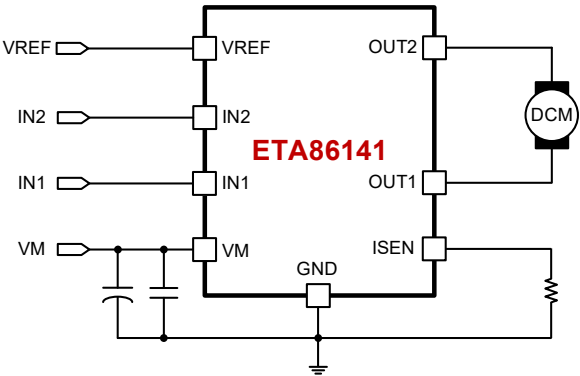
特色产品Featured Products

ETA8614X

36V, 3.6A peak Brushed DC Motor Driver

- Features
- Wide 6.5 V to 36 V Operating Voltage
 - 1.8-A continuous current, 3.6-A peak current capability
 - 480 mΩ Typical RDS(on) (HS + LS)
 - Internal charge pump with capacitor inside
 - Integrated Current Regulation
 - Low-Power Sleep Mode
 - Protection Features
 - Thermal Shutdown (TSD)
 - Overcurrent Protection (OCP)
 - VM Undervoltage Lockout (VM_UVLO)
 - Internal Charge Pump Undervoltage Lockout (CP_UVLO)

- Applications
- Robotic vacuum cleaner
 - Cleaning appliances
 - Brushed DC Motor driver application



15 ACDC控制器 ACDC Controller

ACDC Primary PWM

Output Power	40V					80V
10W	ETA80511 2A/700V PL MOS. QR/CCM, 80kHz SOP-7					
15W	ETA80513 2A/900V PL MOS. QR/CCM/CP, 80kHz DIP-7					
20W	ETA8057P 2Ω/650V MOS. QR/CCM/CP, 80kHz ESOP-6	ETA80571 2.2Ω/650V SJ MOS. QR/CCM/CP, 80kHz ESOP-6	ETA8056 2.2Ω/650V SJ MOS. QR/CCM/CP, 80kHz ESOP-6			
25W	ETA80512 4A/800V PL MOS. QR/CCM/CP, 80kHz DIP-7	ETA80515 4A/650V PL MOS. QR/CCM/CP, 80kHz DIP-7	ETA8058 0.76Ω/650V MOS. QR/CCM/CP, 80kHz SOP-7	ETA80563 2Ω/650V MOS. QR/CCM/CP, 80kHz ESOP-6	ETA80582 0.95Ω/650V MOS. QR/CCM/CP, 80kHz ESOP-6	
30W	ETA80516 5A/650V PL MOS. QR/CCM/CP, 80kHz DIP-7					
35W	ETA80517 1.6ohm/650V SJ MOS. QR/CCM/CP, 80kHz DIP-7	ETA80593 0.55Ω/650V MOS. QR/CCM/CP, 80kHz ESOP-6	ETA8059 0.52Ω/650V MOS. QR/CCM/CP, 80kHz A/ESOP-6			ETA80753 0.52Ω/650V SJ MOS. High EFF,QR,110kHz ESOP-6
36W	ETA80503 0.58Ω/650V MOS. QR/CCM/OCp 80kHz High Efficiency ESOP-6	ETA80597 0.58Ω/650V MOS. QR/CCM/CP 80kHz High Efficiency ESOP-6				
45W	ETA80505 0.38Ω/650V MOS. QR/CCM/OCp 80kHz High Efficiency ESOP-10W/QFN68	ETA80598 0.48Ω/650V MOS. QR/CCM/CP 80kHz High Efficiency ESOP-10W	ETA8053 0.36Ω/650V MOS. QR/CCM/OCp, 80kHz QFN68			ETA80755 0.34Ω/650V SJ MOS. High EFF,QR,110kHz ESOP-10W
50W	ETA80506 0.28Ω/650V MOS. QR/CCM/OCp 80kHz High Efficiency ESOP-10W/QFN68					ETA80756 0.28Ω/650V SJ MOS. High EFF,QR,110kHz DFN68/ ESOP-10W
60W	ETA80507 0.22Ω/650V MOS. QR/CCM/OCp 80kHz High Efficiency ESOP-10W/QFN68				ETA8050 0.28Ω/650V SJ MOS. QR/CCM, 80kHz ESOP-10W	ETA80757 0.22Ω/650V SJ MOS. High EFF,QR,110kHz ESOP-10W
65W	ETA8047 PWM Controller QR/CCM, 80kHz SOT23-6	ETA8048 PWM Controller QR/CCM/CP, 80kHz SOT23-6	ETA8049 PWM Controller DCM/CCM, 65kHz PTP XX2281,SOT23-6	ETA8077 QR PWM Controller HV Startup X-cap discharging 120kHz Max Freq SOP-7	ETA8050F 0.28Ω/650V SJ MOS. QR/CCM, 80kHz ESOP-10W	ETA8075 QR PWM Controller QR/DCM, 100kHz SOT23-6
	ETA8047H PWM Controller QR/CCM, 100kHz SOT23-6	ETA8048H PWM Controller QR/CCM/CP, 100kHz SOT23-6	ETA8049P PWM Controller DCM/CCM, 65/130kHz Peak Power Function SOT23-6	ETA8078 ZVS PWM Controller QR/ZVS, 130kHz HV Startup SSOP-9		ETA8076 QR PWM Controller QR/DCM, 140kHz SOT23-6
>65W	ETA80508 0.15Ω/650V MOS. QR/CCM/OCp 80kHz High Eff 66W ESOP-10W/TO-220	ETA80509 0.15Ω/650V MOS. QR/CCM/OCp 80kHz High Efficiency, 75W/90W ESOP-10W/TO-220				ETA80758 0.15Ω/650V MOSFET High EFF,QR,110kHz ESOP-10W

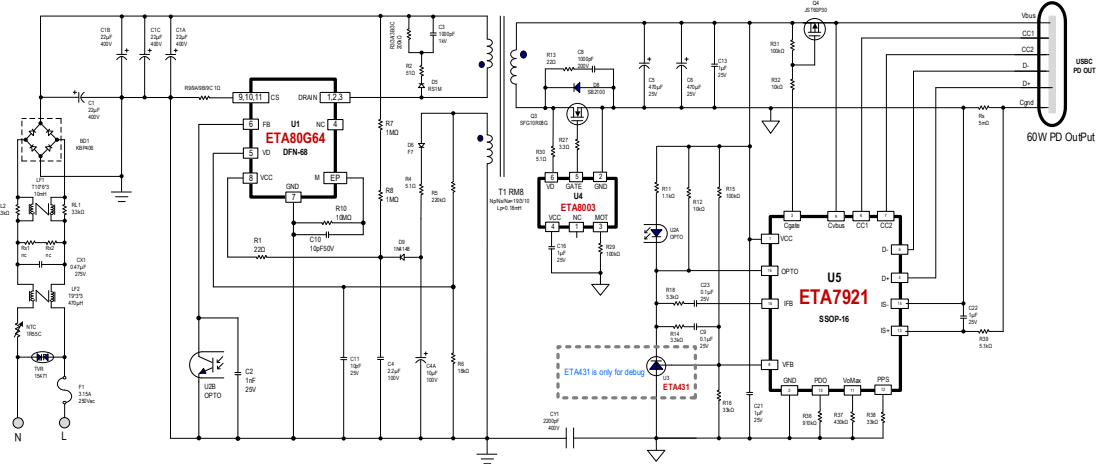
ACDC GaN PWM

	40V	80V
20W	ETA80G21 1.5Ω/650V GaN QR/CCM/CP, 80kHz SOP-7	ETA80G22 1.1Ω/650V GaN QR/CC/CP, 110kHz SOP-7
25W	ETA80G23 1.Ω/650V GaN QR/CCM/CP, 80kHz SOP-7	ETA80G26 0.85Ω/650V GaN QR/CC/CP, 110kHz SOP-7
30W	ETA80G24 800mΩ/650V GaN QR/CCM/CP, 80kHz HSOP-7	ETA80G36 0.62Ω/650V GaN QR/CC/CP, 110kHz ESOP-7
33W		ETA80G37 550mΩ/650V GaN QR/CCM/CP, 110kHz HSOP-7
36W	ETA80G27 550mΩ/650V GaN QR/CCM/CP, 80kHz HSOP-7	ETA80G38 0.45Ω/650V GaN QR/CC/CP, 110kHz ESOP-7
45W		ETA80G61 0.25Ω/650V GaN High EFF,QR,110kHz QFN68
50W		ETA80G62 0.22Ω/650V GaN High EFF,QR,110kHz DFN68
60W		ETA80G64Dcl 0.15Ω/650V GaN High EFF,QR,110kHz DFN68
65W		ETA80G64E10 0.15Ω/650V GaN High EFF,QR,110kHz ESOP-10W
67W		ETA80G66E10 0.11Ω/650V GaN High EFF,QR,110kHz ESOP-10W
75W		ETA80G66S12 0.11Ω/650V GaN High EFF,QR,110kHz ηSOP-12

ACDC Secondly SR

	≤2A	3A	3.5A	>5A
60V		ETA80015 16mΩ/60V MOSFET QR/DCM/CCM, <130kHz Self-powered SOP-8	ETA80016 9mΩ/60V MOSFET QR/DCM/CCM, <130kHz Self-powered SOP-8	
		ETA80035 12mΩ/60V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8	ETA80036 9mΩ/60V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8	
80V	ETA80037 16mΩ/80V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8	ETA80038 11mΩ/80V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8		
100V	ETA80039 11mΩ/90V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8	ETA80030 11mΩ/100V MOSFET QR/DCM/CCM, <150kHz Self-powered SOP-8	ETA80033 5mΩ/100V MOSFET QR/DCM/CCM, <180kHz Self-powered DFN56	ETA8003 SR Controller QR/DCM/CCM, <180kHz Support High/Low Side SOT23-6
		ETA80031 8mΩ/100V MOSFET QR/DCM/CCM, <150kHz Self-powered ESOP-8		

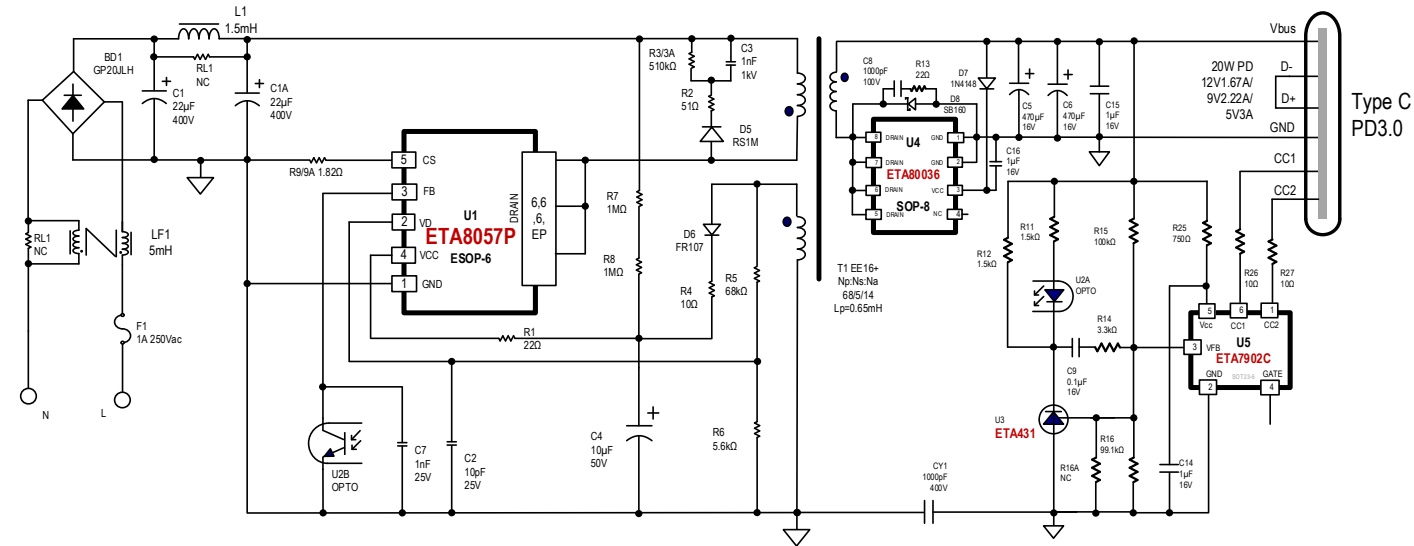
- ETA80GXX Series
- 1. Integrated GaN Mosfet, fast switching speed and high efficiency
 - 2. Wide VCC range, pure QR operation, supporting constant power and constant current mode



ACDC Secondly PD/QC Source

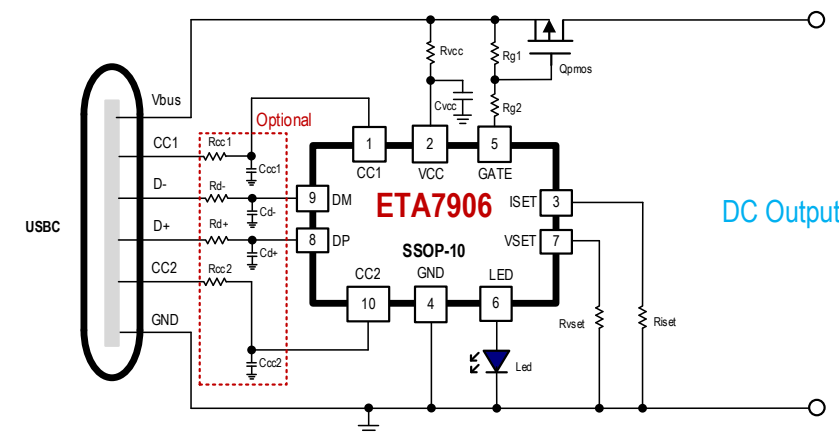
Part No	Package	Control mode	Output port	PDO	Compatible protocols
ETA7901	SOT23-6	FB regulate	USBA	Fixed	QC2.0/3.0, FSP, SCP, AFC, Apple2.4A, BC1.2, VOOC
ETA7902	SOT23-6	FB regulate	Type-C	39W PDO: 5V1.5A/15V2.66A	PD3.0, PD2.0
ETA7902C	SOT23-6	FB regulate	Type-C	PD20W PDO: 5V3A/9V2.22A/12V1.66A	PD3.0, PD2.0
ETA7902D	SOT23-6	FB regulate	Type-C	PD25W PDO: 5V3A/9V2.66A/12V2.08A	PD3.0, PD2.0
ETA7902G	SOT23-6	FB regulate	Type-C	PD30W PDO: 5V3A/9V3A/12V2.5A/15V2A	PD3.0, PD2.0

1. ETA7901极简引脚兼容大部分A口私家协议
2. ETA7902极简引脚, 支持PD2.0/3.0, 最高到输出15V, 任天堂游戏机专用协议
3. ETA7902C/G标准PD20/30W快充协议
4. ETA7916全C口协议, 集成Vbus管, 多种PDO可选并可多口并联扩展
5. ETA7921全C口协议, 支持100W, 双向通讯, 灵活设置。



ACDC Secondly PD/QC Sink

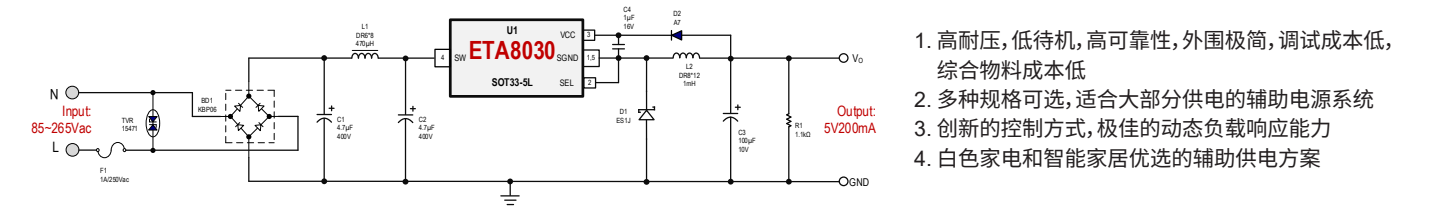
Part No	Package	Features	Output Port	PDO	Compatible Protocols
ETA7904	SOT23-6	Minimalist and low cost	Type-C	Vo set by ext Res and adaptive input PDO	PD3.1/3.0, Type-C V2.2
ETA7904L	SOT23-6	Minimalist and ultra-low cost	Type-C	Vo set by ext Res and adaptive input PDO	PD3.1/3.0, Type-C V2.2
ETA7905	SOT23-6	Optional: OVP/UVP/OTP	Type-C	Io/Vo set by ext Res and adaptive input PDO	PD3.1/3.0, Type-C V2.2
ETA7906	SSOP-10/DFN2*2	Optional: OVP/UVP/OTP	Type-C&USBA	Io/Vo set by ext Res and adaptive input PDO	PD3.1/3.0, Type-C V2.2, BC1.2
ETA7906C	SSOP-10/DFN2*2	Optional: OVP/UVP/OTP	Type-C&USBA	Io/Vo set by ext Res and fix input PDO	PD3.1/3.0, Type-C V2.2, BC1.2
ETA7907	DFN2*2-6	Minimalist and Simple	Type-C&USBA	Vo set by ext Res and adaptive input PDO	PD3.1/3.0, Type-C V2.2, BC1.2



1. ETA7904L低成本极筒引脚适用标准PD受电协议
2. ETA7905外围极筒综合低成本,支持PD2.0/3.0,最高到输出20V
3. ETA7906适用标准PD3.1, Type-C V1.6协议, USB BC1.2快充协议,带路径切换多种版本,快充灯显,最大支持65W设定
4. ETA7907全C口协议,标准PD和BC1.2,输出电压可外接电阻设置,支持动态电压调整

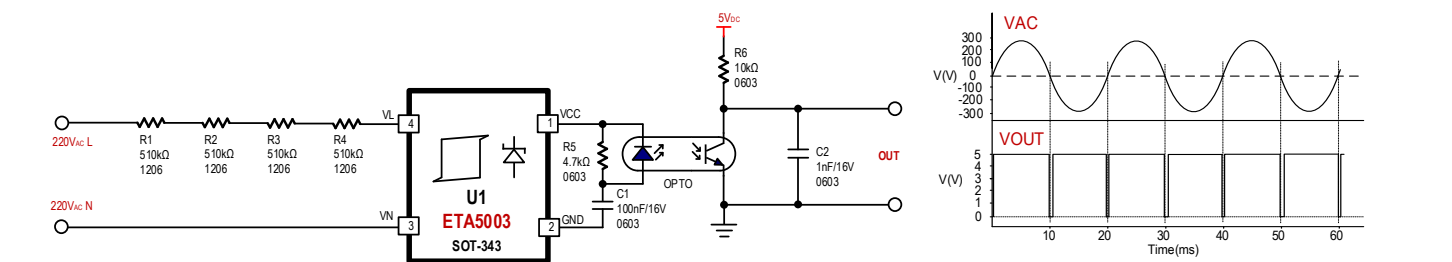
ACDC Non-isolated

Part No	Package	Input	Output	Standby Power	Comment
ETA8030	SOT33-5	90~265Vac	≥5V/3.3V 100mA	<30mW	700V, Auxiliary power supply of the main control chip MCU in small appliance system
ETA80301	SOT33-5	90~265Vac	≥5V/3.3V 50mA	<30mW	800V, Auxiliary power supply of the main control chip MCU in small appliance system
ETA80306	SOP-7	90~265Vac	≥5V/3.3V 50mA	<30mW	Integrated 800V HV NPN Transistor Switch and Freewheeling Diode and Power Supply Rectifier Diode
ETA80307	SOP-7	90~265Vac	≥5V/3.3V 100mA	<30mW	Integrated 800V HV NPN Transistor Switch and Freewheeling Diode and Power Supply Rectifier Diode



AC Zero Crossing

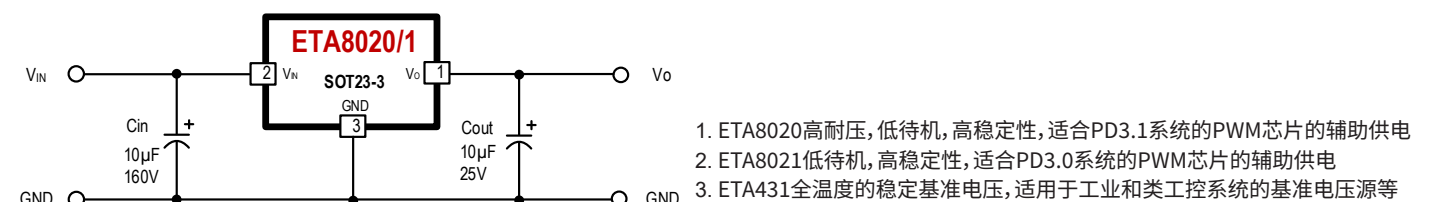
Part No	Package	Input	Output	Power Consumption	Comment
ETA5001	SOT23-3	AC Line	Narrow pulse signal	<30mW	AC line zero crossing single detection, high precision, low power consumption
ETA50017	SOP-8	AC Line	Narrow pulse signal	<30mW	Integrated optocoupler, AC line zero crossing single detection, low power consumption
ETA5002	SOT23-3	AC Line	Wide pulse signal	<30mW	AC line zero crossing single detection, high precision, low power consumption
ETA5003	SOT-343	AC Line	Narrow and wide dual pulse signal	<50mW	AC line zero crossing dual detection, high precision, low power consumption
ETA5005	SOT-343	AC Line	Narrow dual pulse signal	<50mW	AC line zero crossing dual detection, high precision, low power consumption
ETA5006	SOT23-5	AC Line	Wide dual pulse signal	<50mW	AC line zero crossing dual detection, high precision, low power consumption



ACDC Aux

Auxiliary Power Supply LDO Series					
Part No	Package	Max Input	Output	Standby Power	Comment
ETA8020H	SOT23-3	130V	12.5V/10mA	<15mW	Auxiliary power supply of the main control chip in various systems
ETA8020L	SOT23-3	130V	5.5V/10mA	<15mW	Auxiliary power supply of the main control chip in various systems
ETA8021H	SOT23-3	90V	13V/20mA	<15mW	Auxiliary power supply of the main control chip in various systems
ETA8021L	SOT23-3	90V	5.5V/20mA	<15mW	Auxiliary power supply of the main control chip in various systems

Auxiliary Reference Voltage Series					
Part No	Package	Max Input	Ref Voltage	TC Range	Comment
ETA431	SOT23-3	37V	2.5V±1%	-40~125°C	Generation and stabilization of reference voltage in various systems



LV Buck

Part No.	Iout Max (A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Feature		Architecture	Vout Min (V)	Max Duty (%)	Vfb (V)	Switching Frequency (HZ)	Package	Comment
					Low Iq	Power Good							
ETA3425	0.6	2.6	7	1	■		Sync.	1.11	100	1.11	1.4M	SOT23-5/DFN2x2-6	for wearable/NBIOT
ETA3707	0.5/1	2.1	5.5	0.36	■		Sync. COT	1.2/0.7/0.5	100	NA	1.2M	CSP-8/DFN2x2-8	Programmable output voltage
ETA3796	0.6/1	2.1	5.5	0.6/2	■		Sync. COT	0.4	100	NA	1.5M/4M	CSP-6	Programmable output voltage
ETA3429	1	2.6	5.5	6000			Sync.	0.6	100	0.6	2.7M	DFN1.5x1-6	Vin OVP at 7V, Forced PWM
ETA3423	1	2.6	6.5	6000			Sync.	0.6	100	0.6	3M	SOT563/DFN1.6x1.6-6	Vin OVP at 7V, Forced PWM
ETA3426	1.2	2.6	7	1	■		Sync.	1.129	100	1.129	1.4M	SOT23-5/DFN2x2-6	for wearable/NBIOT
ETA3427	1.2	2.6	7	2	■		Sync.	0.788	100	0.788	1.4M	SOT23-5/DFN2x2-6	for wearable/NBIOT
ETA3424	1.5	2.6	7	6000			Sync.	1.2	100	NA	3M	SOT23-5	Vin OVP at 7V, Forced PWM, 固定输出1.2V/2.5V/3.3V
ETA3485	1.5	2.6	7	20			Sync.	0.6	100	0.6	2M	SOT23-5	Vin OVP at 7V, PFM/PWM
ETA3453	2	1.7	5.5	50			Sync. COT	0.45	100	0.45	1.5M	DFN2x2-8	Vin OVP at 6.25V, PFM/PWM
ETA3451	2	2.6	5.5	50			Sync. COT	0.45	100	0.45	1.5M	DFN2x2-8	Vin OVP at 6.25V, PFM/PWM
ETA3451T	2	2.6	5.5	50			Sync. COT	0.45	100	0.45	1.5M	DFN2x2-8	Vin OVP at 6.35V, PFM/PWM
ETA3612	2	2.5	5.5	10000	■		Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, Forced PWM
ETA3526	2	2.5	6	50			Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3527	2	2.5	6	5500			Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, Forced PWM
ETA3448	3	2.5	5.5	8000			Sync. COT	0.6	100	0.6	2M	SOT23-5	Vin OVP at 5.85V, Forced PWM
ETA3458	3	2.5	5.5	6000			Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 5.85V, Forced PWM
ETA3511	3	2.5	5.5	50	■		Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3512	3	2.5	5.5	50	■		Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3514	3	2.5	5.5	50	■		Sync. COT	0.6	100	0.6	2M	DFN2x2-8	Vin OVP at 6.35V, PFM/PWM
ETA3515	3	2.5	5.5	50	■		Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3518	3	2.5	5.5	50	■		Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3525	3	2.5	5.5	10000			Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, Forced PWM
ETA3409	3	2.4	7.3	42	■		Sync.	0.6	100	0.6	1M	SOT23-5	PFM/PWM auto switching
ETA3521	4	2.5	6	50			Sync. COT	0.6	100	0.6	2M	SOT563	Vin OVP at 6.35V, PFM/PWM
ETA3555	5	2.5	5.5	55			I2C, Sync. COT	0.6	100	I2C	2M	CSP-20	Vin OVP at 6.15V, Addr=C0H
ETA355C	5	2.5	5.5	55			I2C, Sync. COT	0.6	100	I2C	2M	CSP-20	Vin OVP at 6.15V Addr=C0H
ETA355D	5	2.5	5.5	55			I2C, Sync. COT	0.6	100	I2C	2M	CSP-20	Vin OVP at 6.15V, Addr=C0H
ETA355E	5	2.5	5.5	55			I2C, Sync. COT	0.6	100	I2C	2M	CSP-20	Vin OVP at 6.15V, Addr=C0H
ETA355T	5	2.5	5.5	55			I2C, Sync. COT	0.6	100	I2C	2M	CSP-20	Vin OVP at 6.15V, Addr=C0H
ETA355*	6	2.5	5	55			Sync. COT	0.6	100	0.6	2M	CSP-20	I2C控制Buck
ETA3575	6	2.5	5.5	35			Sync. COT	0.6	100	0.6	2M	FCQFN2*1.6/QFN-14	I2C控制Buck
ETA9121	10	2.5	5.5	15			Sync. COT	0.3	100	0.3	3M	CSP-24/QFN4*4-20	Dual Phase, I2C V/I/T Monitor

PMIC

Part No.	Vin Min (V)	Vin Max (V)	Regulated Outputs						Package	Configurability	Notes
			Total	Buck		Boost	LDO	Load Switch			
				Iout Max (A)	Arch.	Isw Max (A)	Iout Max (A)	Iout Max (A)			
ETA9145	2.7	5.5	7 4 Bucks+ 3 LDOs	2.5(3) 4(1)			0.8(1) 0.2(2)		QFN5x5-40/ CSP3.25x3.33-52	Hardware Configurable Software Configurable	SSD/工业控制 方案 应用

Boost

Part No	Vout Min (V)	Vout Max (V)	Isw Max(A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Feature		Architecture	Vfb (V)	Switching Frequency (HZ)	Package	Notes
							Low Iq	Power Good					
ETA1035	2.1	5	1.5	0.6	4.5	40			Sync.True-shutoff	0.6	2M	DFN2x2-6	3W output power with Li+ battery, 输出电压可调
ETA1036	2.1	5	1.5	0.6	4.5	40			Sync.True-shutoff	NA	2M	SOT23-5	3W output power with Li+ battery 输出电压2.1V/3.3V/5V,
ETA1038	1.8	5	2.8	1.8	4.5	40			Sync.True-shutoff	1.17	1M	SOT23-6	5V/1.5A ouput with Li+ battery, 输出电压可调
ETA1136	5	5	2.8	1.8	4.5	40			Sync.True-shutoff	NA	1M	SOT23-5	Fixed 5V with 1.5A output with Li+ battery
ETA1032	5	5	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	5V fixed output with Li+ battery, NFC 应用/通用应用
ETA1039	5	5	Adjustable	1.8	4.5	40			Sync.True-shutoff	NA	1M	SOT23-6	1.5A output with Li+ battery
ETA1090	1.8/3.1	5	Adjustable	1.8/3.1	5.5	50			Sync.True-shutoff	0.6	1M	DFN3x3-12	5V High Current, For 3G/4G module and general purpose
ETA1096	1.8	5	Adjustable	1.8	5.5	50			Sync.True-shutoff	0.6	1M	ESOP8	锂电池升压5V/3A, 通用升压
ETA1132	5.4	5.4	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	NFC应用/通用应用
ETA1133	5.4	5.4	3	2.5	5.25	45			Sync.True-shutoff	NA	2.5M	CSP1.2x1.2-9	NFC应用/通用应用
ETA65132	4	6	1.6	2.5	5.5	1000			Boost, Chargepump	NA	1.8M	CSP-15	Single inductor, Two Output; LCM Driver的正负压驱动, 最大输出150mA
ETA65132S	4	6	1.6	2.5	5.5	1000			Boost, Chargepump	NA	1.8M	CSP-15	Single inductor, Two Output; LCM Driver的正负压驱动, 最大输出220mA

LDO

Part No	Iout Max (A)	Vin Min (V)	Vin Max (V)	Iq (uA)	Feature			Vout Min (V)	Vout Max (V)	Vfb (V)	Package	Notes
					Low Iq	High PSRR	Low noise					
ETA5051	0.3	2.7	5.5	170			■	1.8	3.3	NA	SOT23-5	Vout fixed,80dB PSRR,通用LDO
ETA5052	0.3	2.7	5.5	170			■	1.2	5.5	1.2	SOT23-6	Vout adjustable,80dB PSRR,, 通用LDO
ETA5053	0.3	1.6	6	35			■	0.8	3.95	NA	SOT23-5/ DFN1x1-4	Vout fixed,high PSRR,超小封装, 平板/OTT 等
ETA5254	0.3	1.6	6	35		■	■	0.8	3.95	NA	SOT23-6	Dual LDO, Vout fixed
ETA5071	0.3	1.8	6.5	1	■			1.2	3.6	NA	SOT23-5/ DFN1x1-4	Vout fixed, high PSRR, for cellphones, wearable
ETA5057	0.35	2.7	5.5	170			■	1.2	5.5	1.2	SOT353-5/ DFN1x1-4	Vout adjustable,80dB PSRR, 通用LDO
ETA5055	0.5	1.8	5.5	4.5			■	1.1	3.6	NA	SOT23-5/ DFN1x1-4/ DFN2x2-6/ CSP-4/ FOT-4	Vout fixed,96dB PSRR, 通用LDO
ETA5056	0.6	2	6	37				0.8	5	NA	SOT23-5	Vout fixed,high PSRR,输出固定可调, 通用LDO
ETA5067	0.6	0.8	5.5	35			■	0.6	3.6	NA	DFN1.2*1.2-4/ DFN1.2*1.2-6/ SOT23-5	Vout fixed,80dB PSRR, NMOS LDO
ETA5167	0.6	0.8	5.5	35				0.8	3.3	0.8	DFN1.2*1.2-6	NMOS LDO
ETA5367	0.6	0.8	5.5	35				0.6	3.3	0.8	DFN2*2-6	NMOS LDO
ETA5068	0.8	0.5	5.5	35			■	0.4	3.3	0.5	CSP-6/ DFN2*2-6	Vout adjustable,80dB PSRR, NMOS LDO
ETA5168	0.8	0.8	5.5	35				0.6	3.6	NA	DFN1.2*1.2-4	NMOS LDO
ETA5060	1	1.8	5.5	20	■			0.8	5	0.8	SOT89-5/ DFN1.2x1.6-8/ DFN2x2-8/ DFN2x2-6	Vout adjustable/fixed,1A,high PSRR, 通讯等应用
ETA5069	1.2	0.5	5.5	35			■	0.4	3.3	0.5	CSP-6/ DFN2*2-6	Vout adjustable,80dB PSRR
ETA5169	1.2	0.8	5.5	35				0.8	3.3	0.8	DFN1.2*1.2-6	NMOS LDO
ETA5062	1.5	1.8	5.5	12	■			0.8	5	0.8	ESOP8	Vout adjustable,2A,high PSRR, 笔记本/工业等应用
ETA5063	2	1.8	5.5	12	■			0.8	5	0.8	ESOP8	Vout adjustable,2A,high PSRR, 笔记本/工业等应用

LCD Driver

Part No.	Architecture	Vin Range (V)	Max. No. of LEDs	Max. Isw (A)	Vfb (V)	Frequency (Hz)	Iq (uA)	Package	Min. Dimming Duty	Notes
ETA1168	Non-Sync.Boost	2.7-6	10	0.7	0.2	600K	600	DFN2x2-6	3%	高效单串可驱动10颗LED
ETA1637	Sync.True Shutoff	2.7-6	16	1.5	NA	600K	300	SOT23-6	0.1%	同步真关断背光LED驱动, 调光精度0.1%
ETA1638	Sync.True Shutoff	2.7-6	16	1.5	NA	600K	300	DFN2x2-6	0.1%	同步真关断背光LED驱动, 调光精度0.1%
ETA1165	Non-Sync.Boost	2.7-6	20	0.7	0.2	600K	600	SOT23-6	3%	高效单串可驱动10颗LED
ETA1617	Non-Sync.Boost	2.7-6	40	1	0.2	800K	200	SOT23-6	8%	通用手机和平板7.9寸TFT屏背光

Charger

Part No	Icharge Max (A)	Vin Min (V)	Vin Max (V)	Architecture	Vin Standoff (V)	Final Vbat (V)	PP Rdson (mΩ)	Switching Frequency (Hz)	OTG	Package	Notes
ETA6918	1.5	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	CSP5x6 30	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6919	1.5	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	QFN4x4-24	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6917	2	3.9	13.5	Sync.Buck+OTG+NVDC+LDO*2	22	4.1-4.73	28	1.5M	1.2A	CSP5x6-30	I2C Control,充电/OTG模式由引脚控制, 超低电池端漏电
ETA6920	2	3.9	13.5	Sync.Buck+OTG+NVDC+LDO*2	22	4.1-4.73	28	1.5M	1.2A	CSP5x6-30	I2C Control, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6003	2.5	4.4	5.5	Sync.Buck+NVDC	6	4.2	50	3M	No	QFN3x3-16	DPPM, 输入功率自适应, 过压保护, 系统供电2.5A
ETA6937	3	3.8	12	Sync.Buck+OTG	20	3.5-4.44	NA	1.3M	1A	CSP-20	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6947	3	3.8	12	Sync.Buck+OTG	20	3.5-4.76	NA	1.3M	1A	QFNFC1.7x2-20/ QFN3x3-16	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA6921	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.5-4.52	40	1.5M	1.2A	QFN4x4-24/ CSP5x6 30	I2C, 充电/OTG模式由引脚控制, 超低电池端漏电
ETA6963	3	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	1.2A	QFN4x4-24	I2C, BC1.2,充电/OTG模式由引脚控制, D+/D-
ETA6973	3	3.9	13.5	Sync.Buck+OTG+NVDC	30	3.848-4.616	27	1.5M	1.2A	PLQFN3x3-24	I2C, 充电/OTG模式由引脚控制, 手机和平板电脑应用
ETA69635	3.78	3.9	13.5	Sync.Buck+OTG+NVDC	22	3.848-4.616	27	1.5M	2A	QFN4x4-24	I2C, BC1.2,充电/OTG模式由引脚控制, D+/D-
ETA6911	4	4.6	16	Sync.Buck	28	4.2/4.35	NA	NA	No	QFNFC1.7x2-20/ QFN3x3-16	输入功率自适应, 过压保护, 4A纯硬件开关充

OVP

Part No	Description	Vin Min (V)	Vin Max (V)	Switch Rdson (mΩ)	Response Time (ns)	OVP trig (V)	Package	Notes
ETA6121	32V/30mΩ high side OVP	3.5	20	30	100	1.21	CSP3x4-12	OVP level adjustable
ETA6123	26V/40mΩ high side OVP with 80V TVS	4.1	24.5	40	60	5.85 (Fix)	FCQFN1.2x1.2-9/ SOT23-6	多个过压保护点可选
ETA6122	32V/45mΩ high side OVP	4.1	28	45	60	1.2	CSP2x3-6/ SOT23-5	OVP level adjustable
ETA4034	30V/2A OVP+OCP	3.5	30	130	70	6.15 (Fix)	DFN2x2-8	ILIM adjustable, NTC温度检测
ETA4032	30V/2A OVP+OCP	3.5	30	130	70	6.15 (Fix)	DFN2x2-8	ILIM adjustable
ETA7028	36V/30mΩ low side OVP	3.6	36	30	68	1.27	SOT23-6	OVP level adjustable
ETA7014	36V/35mΩ high side OVP	4	36	35	100	1.26	SOT23-6/ DFN2x2-8	OVP level adjustable

Air Flow Sensor IC

Part No.	Package					芯片类型	对标型号	触发方式	待机功耗	带载1.2Ω	带载0.8Ω	输出类型			充电功能				BAT防反接	磷酸铁锂电池	童锁	低电量提醒	欠压提醒	
	SOT23-5	SOT23-6	DFN 1X1	DFN 2X2	DFN2 X3-8							恒压输出	恒RMS均方根输出	恒定功率	充电电流	耐高压	充电灯效	充满灯效						充满电压
ETA7087 / 7087F	■		■			开关咪	CSC982H	电容变大/电容变小	3uA	NA	NA													
ETA7187R1/F0	■		■			开关咪可校准触发气压		电容变大/电容变小	3uA	NA	NA													
ETA7387	■		■			超低功耗 主动阈值更新 触发结束快速更新		电容变大/电容变小	1uA	NA	NA													
ETA7081A/E/U	■			■		恒压一次性	CSC912	电容变大	2uA	■		3.5/ 3.1/ 2.7V							■				■	
ETA7083PA1/2/3/X	■			■		恒功率一次性		电容变大	2uA	■	■			5.5/ 6.2/ 6.7W					■				■	
ETA70V86A/L		■				带充电恒压输出 防糊芯	CSC911	电容变大	3uA	■		3.65/ 3.45/ 3.5V			500mA		常亮	闪20下灭	4.2V				■	
ETA70V88D/A/L					■	带充电恒压输出	CSC909	电容变大	3uA		■	3.65/ 3.45/ 3.5V			350mA/ 500mA		常亮	闪20下灭	4.2V				■	
ETA708/66VAx/F					■	超低功耗强ESD 充电呼吸灯 恒压输出	CSC911 CSC909	电容变大/ 电容变小	1uA	■	■	3.55V			350mA/ 500mA		呼吸灯	常亮	4.2V		可选 无童锁版本 为7066VA1	■	■	
ETA7086RA/B/C		■			■	多档位可选 恒有效充电	SG085G	电容变大	3uA	■	■	3.2/ 3.3/ 3.4RMS			350mA/ 500mA		常亮	闪20下灭	4.2V				■	
ETA708/69PA1/2/3/F		■			■	超低功耗强ESD 充电呼吸灯 恒功率输出		电容变大/ 电容变小	1uA	■	■		12/ 9.5/ 6.5W	350mA/ 500mA		呼吸灯	常亮	4.2V		可选 无童锁版本 为7066PA*	■	■		
ETA708/66VLFP		■				支持磷酸铁锂电池 充满3.65V		电容变大/ 变小可选	1uA	■	■	2.8V			350mA/ 500mA		呼吸灯	常亮	3.65V		■	可选 无童锁版本 为7066VLFP	■	■
ETA7058/9					■	FT烧录任意配置 童锁 负载监测 烟弹插拔		电容变大/ 变小可选	1uA	■	■	可通过 烧录配置	可通过 烧录配置	可通过 烧录配置	可通过 烧录配置		呼吸灯	常亮	可通过烧 录配置				■	■
ETA7086VH1					■	36V耐高压 恒压输出		电容变大/ 变小可选	1uA	■	■	3.55V			350mA/ 500mA	■	呼吸灯	常亮	4.2V		可选 无童锁版本 为7066VH1	■	■	
ETA7089PHX		■			■	36V耐高压 恒功率输出		电容变大/ 变小可选	1uA	■	■		12/ 9.5/ 6.5W	350mA/ 500mA	■	呼吸灯	常亮	4.2V		可选 无童锁版本 为7069PHX	■	■		

E-cig SoC IC

Part No.		👍 ETA7077	👍 ETA7061	👍 ETA7062	👍 ETA7189	👍 ETA7071/3
Pack-age	SOT23-5	■				
	DFN2X3-8				■	
	DFN2X3-12L		■	■		
	QFN3X3-16		■	■		
	QFN4X4-16					■
芯片类型		LDO+咪头开关集成	SoC	SoC	外置MOS电子烟驱动芯片	Powerbank+带载咪头集成
触发方式		电容变大 变小可选	电容变大 变小可选	电容变大 变小可选	电容变大 变小可选	电容变大
待机功耗		7uA	3uA	2uA	2uA	10uA
带载1.2Ω		NA	■	■	NA	■
带载0.8Ω		NA	■	■	NA	■
输出类型						外置MOS驱动
	带载恒压输出		可配置2.7-3.8V	可配置	可配置 2.0V-4.0V	
	恒RMS均方根输出		可配置	可配置	根据MOS管选型配置	
	恒定功率		可配置5-13W	可配置	根据MOS管选型配置	
充电功能	充电电流		可配置0.2-0.9A		可配置	可配置100mA-1A
	充满电压		可配置		可配置	可配置100mA-1A
	耐高压		■			■
移动电源						■
气流传感功能		■	■		■	■
I2C通讯模块			■			
自定义通讯模块				■		
磷酸铁锂电池			■		■	
电量计LED				■		■
LDO功能		■				■
预热功能			■		■	
烟弹状态			■	■	■	
低电量提醒			■			
欠压提醒			■		■	■

18 蓝牙耳机IC TWS IC

Part No	Description	Indicator	Boost	Charger	Toleration (V)	Package	Notes
ETA9030	2 in 1, charger+boost with I2C control, bidirectional communication	NA	5V/1A Sync.	4.2V/4.35V/4.4V/1.5A adj	28	QFN3x3-16	蓝牙充电盒, 移动电源
ETA9030V	2 in 1, charger+boost with I2C control, bidirectional communication	NA	5V/1A Sync.	4.2V/4.35V/4.4V/1.5A adj	28	QFN3x3-16	蓝牙充电盒, 移动电源
ETA9036	2 in 1, charger+boost with I2C control, bidirectional communication	NA	5V/0.5A Sync.	4.2V/4.35V/4.4V/1A adj	28	QFN3x3-16	蓝牙充电盒, 移动电源
ETA9695	2 in 1, low IQ charger+boost, <5uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.2V/1.2A adj	16	ESOP8	蓝牙充电盒, 移动电源
ETA9697	2 in 1, low IQ charger+boost, <5uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.2V/1.2A adj	16	ESOP8	蓝牙充电盒, 移动电源
ETA9797	2 in 1, low IQ charger+boost, <5uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.2V/1.2A adj	16	ESOP8	蓝牙充电盒, 移动电源
ETA96973	2 in 1, low IQ charger+boost, <5uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.35V/1.2A adj	16	ESOP8	蓝牙充电盒, 移动电源
ETA9897	2 in 1, low IQ charger+boost, <3uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.2V/1.2A adj	30	ESOP8	蓝牙充电盒, 移动电源
ETA9698	2 in 1, low IQ charger+boost, <5uA standby current	2 LEDs fuel gauge	5V/0.4A Sync.	4.2V/1.2A adj	40	ESOP8	蓝牙充电盒, 移动电源
ETA9084	3 in 1, low IQ charger+boost+fuel gauge	4 LEDs fuel gauge	5V/0.5A Sync.	4.2V/4.35V/1A adj	20	ESSOP10/DFN3x3-10	蓝牙充电盒, 移动电源
ETA9085	3 in 1, low IQ charger+boost+fuel gauge	4 LEDs fuel gauge	5V/0.5A Sync.	4.2V/4.35V/1A adj	20	ESSOP10/DFN3x3-10	蓝牙充电盒, 移动电源
ETA9184	3 in 1, low IQ charger+boost+fuel gauge	4 LEDs fuel gauge	5V/1A Sync.	4.2V/4.35V/1A adj	20	ESSOP10/DFN3x3-10	蓝牙充电盒, 移动电源
ETA9185	3 in 1, low IQ charger+boost+fuel gauge	4 LEDs fuel gauge	5V/1A Sync.	4.2V/4.35V/1A adj	20	ESSOP10/DFN3x3-10	蓝牙充电盒, 移动电源

19 锂电池转干电池芯片 Li+ Battery to Dry Battery IC

Part No	Description	Vin Min (V)	Vin Max (V)	Vin Standoff (V)	Final Vbat (V)	PP Rdson (mΩ)	Icharge Max (A)	Switching Frequency (Hz)	OTG	Package	Notes
ETA6200	1.5V/3V Sync.Buck&5V Linear Charger	3.2	6	28	4.16/4.31	NA	1	2.7M	No	DFN3x3-10	1 or 2 dry cells compatible Li+ battery
ETA6100	1.5V/2.5A Sync.Buck&5V Linear Charger	4.5	5.5	6.5	4.2	NA	0.58	1.5M	No	SOT23-6	1 dry cell compatible Li+ battery
ETA6017	1.5V/2A Sync.Buck&5V Linear Charger	3.85	5.5	6	4.2/4.35	NA	1	3M	No	QFN3x3-16	1.5V dry cell compatible Li+ battery

20 移动电源IC Power Bank IC

Part No	Description	Indicator	Boost	Charger	Toleration (V)	Package
ETA6850	3 in 1 Type-C supported, PowerSOC+, QC/SCP/AFC/FCP fastcharge	4 LEDs indicate states	4.5-12V Sync.	4.2V/4.35V/4A max	16	QFN4x4-32
ETA9697	2 in 1 PowerSOC+,work with MCU	Chrg LED,MCU defined	5V/0.4A Sync.	4.2V/1.2A linear	16	ESOP8
ETA9720	3 in 1 Type-C supported, PowerSOC+,auto charge or discharge	4 LEDs indicate states	5V/1.2A Sync.	4.2V/1.2A adj	6	SOP8
ETA6093	3 in 1 Type-C supported, PowerSOC+, auto charge or discharge	2 LEDs indicate states	5V/1.2A Sync.	4.2V/1.2A fixed	6	SOT23-5
ETA6193	3 in 1 Type-C supported, PowerSOC+,auto charge or discharge	2 LEDs indicate states	5V/1.2A Sync.	4.35V/1.2A fixed	6	SOT23-5
ETA9638	2 in 1 PowerSOC+,work with MCU, with charger LED	Chrg LED,MCU defined	5V/1A Sync.	4.2V/1A linear	6	ESOP8
ETA9640	3 in 1 PowerSOC+,work with MCU, linear charger	Heartbeat LED	5V/1A Sync.	4.2V/1A linear	6	ESOP8
ETA9741	3 in 1 PowerSOC+,auto charge or discharge, Flash supported	4 LEDs indicate states	5V/2.4A Sync.	4.2V/2A fixed	6	ESOP8
ETA9740	3 in 1 PowerSOC+,auto charge or discharge,Type-C supported	4 LEDs indicate states	5V/2.4A Sync.	4.2V/3A adj	6	ESOP8
ETA9742	3 in 1 PowerSOC+,auto charge or discharge, MCU supported	4 LEDs indicate states	5V/2.4A Sync.	4.2V/3A adj	6	ESOP8
ETA6980	3 in 1 PowerSOC+,high efficiency, auto start discharge	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/3A adj	16	QFN4x4-28
ETA6982	3 in 1 PowerSOC+,high efficiency turbo, auto start discharge	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/3A adj	16	QFN3x3-20
ETA9880	3 in 1 PowerSOC+,high efficiency, auto start discharge	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/2.4A fixed	20	ESOP8
ETA9881	3 in 1 PowerSOC+,high efficiency, D+/D-, auto start discharge	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/2.4A fixed	20	ESSOP10
ETA9882	2 in 1 PowerSOC+,high efficiency, with charger LED	Chrg LED,MCU defined	5V/2.4A Sync.	4.2V/4.35V/2.4A fixed	20	ESSOP10
ETA9885	3 in 1 PowerSOC+,high efficiency, D+/D-, with fuel gauge	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/2.4A fixed	20	ESSOP10
ETA6884	3 in 1 PowerSOC+, auto start discharging	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/3A adj	20	QFN4x4-28
ETA6886	3 in 1, PowerSOC+, start by manual pressing	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/3A adj	20	QFN4x4-28
ETA6887	3 in 1, PowerSOC+,start by manual	4 high accuracy LEDs	5V/2.4A Sync.	4.2V/4.35V/3A adj	20	QFN4x4-28
ETA6085	2 in 1, PowerSOC+, work with MCU	Chrg LED,MCU defined	5V/2.5A Sync.	4.2V/3A adj	6	QFN3x3-20
ETA6185	2 in 1 PowerSOC+, work with MCU	Defined by MCU	5V/2.5A Sync.	4.35V/3A adj	6	QFN3x3-20
ETA6983	3 in 1, PowerSOC+,high efficiency turbo, auto start discharge	4 high accuracy LEDs	5V/3.1A Sync.	4.2V/3A adj	16	QFN3x3-20
ETA9883	2 in 1, PowerSOC+,high efficiency with charger LED	Chrg LED,MCU defined	5V/3A Sync.	4.2V/4.35V/2.4A fixed	20	ESSOP10
ETA6986	2 in 1 PowerSOC+, work with MCU	Chrg LED,MCU defined	5V/3A Sync.	4.2V/4.35V/5A adj	20	QFN3x3-20

21 以太网供电芯片 POE IC

PD (Power Devices) Interface

Part No.	PoE standards supported	PD power level	DC/DC control	Package	PoE current limit (mA)	PoE inrush limit (mA)	Hot-swap Switch (mΩ)	Features
ETA7978	IEEE 802.3af/at	13W, 25W	PD Only	ESOP8/ DFN3*3-10	1A/0.5A (Auto-adjustable Based on Classification)	140	100V, 0.5Ω	2-Event Classification, Power Good Indicator, Type-2 PSE Indicator, Auxiliary Adapter O-Ring Power Supply, MPS,Thermal shutdown

PD (Power Devices) DC-DC

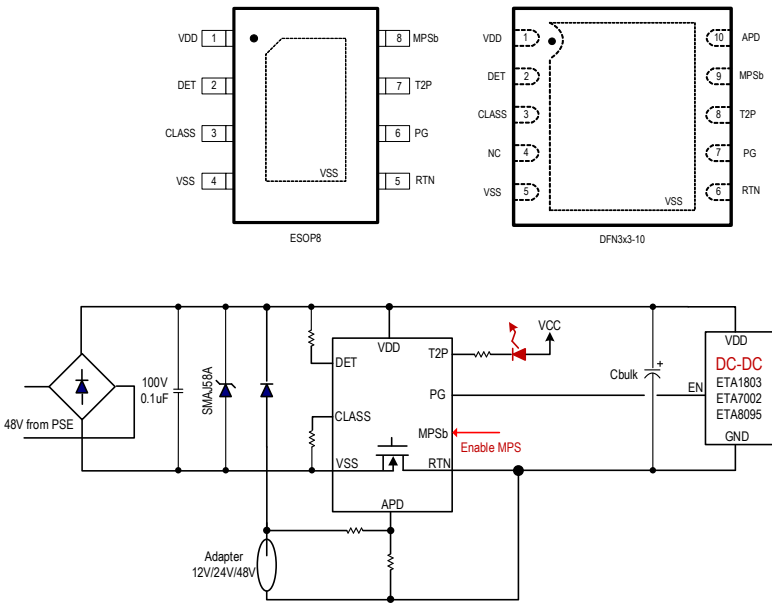
Part No.	Topology	Iout (A)	Vin Min (V)	Vin Max (V)	PoE standards supported	PD power level	Package	Features
ETA7002	Flyback	1.5	36	60	IEEE 802.3af	13W	ESOP8	An integrated 0.57Ω 120V Power Switch Programmable Switching Frequency Integrated 100V Startup Circuit Internal Slope Compensation Disable Function, Built-in Soft-Start, Auto-Restart for Opened/Shorted Output Zero Load Regulation
ETA1860	Buck	1.5	7	60	IEEE 802.3af	13W	ESOP8	100V Standoff Input Voltage Adaptive COT Control Programmable Switching Frequency Ultra-fast Load Transient Response High Efficiency PFM Mode at Light Load Internal Power FETs
ETA1803	Buck	2.5	8	60	IEEE 802.3af/at	13W	DFN3*3-10	65V Standoff Input Voltage Adaptive COT Control Programmable Switching Frequency Ultra-fast Load Transient Response High Efficiency PFM Mode at Light Load Internal Power FETs

特色产品Featured Products

ETA7978

PoE-PD Interface Controller

- Features
- Compatible with 802.3af/at Specifications
 - 100V, 0.5Ω Integrated Hot-swap Switch
 - 120mA Inrush Current Limit
 - 840mA Operation Current Limit
 - 2-Event Classification
 - Auxiliary Adapter O-Ring Power Supply
 - Adapter Priority Input
 - Support MPS (Maintain Power Signature) Function
 - Open-Drain Type-2 PSE Indicator
 - Over-Temperature Protection (OTP)
 - Package
 - ESOP-8 (p2p TPS2378)
 - DFN3x3-10(p2p MP8003A)



22 车用芯片 Automotive IC

Automotive Buck

Output Current	<1A	1A	2A	3A
V _{IN}	5.5V		EQ21200 2A/5.5V 2MHz SW Freq. COT / PG/ Out discharge PFM / FPWM DFN2x2-8	
		EQ21x0x 1A, 2A, 3A/5.5V Adjustable SW Frequency up to 4MHz COT / PG, PFM/FPWM SOT583/DFN2x1.5-8/SOT23-8 TPS62850x/MPQ217x		
36V	EQ24030 0.3A, 2MHz SW Freq. PFM / COT SOT23-6		EQ24x01 36V 2A/3A, 0.4/2.1MHz, PFM+PWM/FPWM QFN2x3-12	
60V			EQ26200 60V 2A,COT 200k~800kHz PFM+PWM/FPWM DFN3x3-10	

Automotive LDO

Output Current	0.3A	0.5A	1A
V _{IN} 5-8V LV	EQ5130 300mA/5.5V 70dB PSRR, 1uA Iq DFN1x1-4/SOT23-5 NCV8163	EQ5150 500mA/5.5V 60dB PSRR, 37uA Iq SOT23-5/DFN2x2-6/DFN3x3-8 NCV8705  EQ5151 500mA/5.5V, PG SOT23-5/DFN2x2-6/DFN3x3-8 TPS745	EQ5190 1A/5.5V 20uA Iq DFN2x2-6/DFN3x3-8 TPS746/MPQ20051
	 EQ5431 300mA/ 40V 70dB PSRR, 4uA Iq, PG ESOP8 AP7583Q/AQ		

Automotive Local Dimming

	FET Controller	64CH	128CH		16CH
Time Multiplex Local Dimming Backlight	EQ9610 ASIL-B 2-8 Scan FET controller 20V VLED Max control 8 PFET Total solution with ETA9618/9 QFN 4*4	EQ9618 ASIL-B 16 x 90mA (With 4 Scan) Up to 20V VLED 15 bit PWM / Mixture Dimming Adaptive headroom Easy Layout and EMI Optimized	EQ9619 ASIL-B 16 x 90mA (With 8 Scan) Up to 20V VLED 15 bit PWM / Mixture Dimming Adaptive headroom Easy Layout and EMI Optimized	Direct Drive Local Dimming Backlight	EQ9616 16 x 90mA Up to 20V VLED 15 bit PWM / Mixture Dimming Compatible with Himax TCON Adaptive headroom Easy Layout and EMI Optimized

Automotive Global Dimming

	4CH	6CH
Int. FET	EQ9864 3.5V-36V input 4 x 150mA Dimming Ratio 25,000:1@200Hz 5.5A 50V Non-Sync Boost converter PWM/Analog/Hybrid dimming support Any dimming frequency support with auto phase shift I2C diagnostic p2p with MPQ3364 MPQ3364	EQ9867 3.5V-36V input 6 x 150mA Dimming Ratio 25,000:1@200Hz 5.5A 50V Non-Sync Boost converter PWM/Analog/Hybrid dimming support Any dimming frequency support with auto phase shift I2C diagnostic p2p with MPQ3367 MPQ3367

Automotive Smart RGB LED Driver

	3CH		
30mA	ETA9661W	ETA9661C	ETA966H
	Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail Wafer level	Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail DFN-10 2x2 with external LEDs	Input 3V-5.5V 3 x 30mA 304Hz/19.5kHz PWM Dimming 16-bit CRC and Watchdog functions LED open/short detection with one-fails-all-fail DFN-6 1616/3535/5050 Integration with RGB

Automotive Window Watchdog Timer

Part No	Description	VCC Min(V)	VCC Max(V)	Iq (typ) (μA)	Package	Comment
EQ9108S8A	Window watchdog timer for VCC=5V	4.8	5.2	6	SOP8	Push-pull output, p2p MPQ6411GS-AEC1
EQ9108V330S8A	Window watchdog timer for VCC=3.3V	3.168	3.432	6	SOP8	Open Drain output, p2p MPQ6411GS-33-AEC1

Automotive Load Switch

Part No	Iout Max (A)	Vin Min (V)	Vin Max (V)	Foldback Voltage (V)	Switch RdsOn (mΩ)	Iq(μA)	Package	Notes
EQ3120	2	2.1	6	1	70	100	SOT23-6	ILIM adjustable, Reverse blocking, fault indication
EQ322F400	0.6	3	15	NA	400	2000	QFN4x4-20	2-CH High-Side 15V/600mA Switch with Integrated ADC
EQ342F400	0.6	3	15	NA	400	2000	QFN4x4-20	4-CH High-Side 15V/600mA Switch with Integrated ADC

Automotive Level Shift

Part No	Channel	Push-pull date rate Max	Open-drain date rate Max	A ports Voltage (V)	B ports Voltage (V)	Package	Notes
EQ40104	4bits	24Mbps	2Mbps	1.65-5.5	2.3-5.5	TSSOP-14	push-pull/open-drain, p2p TXS0104E-Q1 & NXS0104-Q100
NEW EQ40108	8bits	24Mbps	2Mbps	1.65-5.5	2.3-5.5	TSSOP-20	8bits,push-pull/open-drain, 应用于1.8V,2.5V,3.3V,5V车规级逻辑系统

Automotive Precision Operational Amplifiers

Part No	Description	Channels	VDD supply range	IQ (uA)	VOS (uV)	VOS Drift (μV/°C)	GBW (KHZ)	SR (V/uS)	noise (nV/√Hz at 1KHZ)	Package
EQ45001	Zero-Drift, Low-Offset, Rail-to-Rail I/O Single Channel Operational Amplifier	1	1.8 V to 5.5 V	15	10	0.05	300	0.15	55 nV/√Hz at 1KHZ	SOT23-5
EQ45002	Zero-Drift, Low-Offset, Rail-to-Rail I/O Dule Channel Operational Amplifier	2	1.8 V to 5.5 V	15	10	0.05	300	0.15	55 nV/√Hz at 1KHZ	SOP-8/ DFN3*3-8

Automotive Comparators

Part No	Description	Channels	VDD supply range	IQ (uA/CH)	VOS (uV)	ISC (mA)	TPD-HL (ns)	TPD-LH (ns)	Output mode	Package
EQ49032	High-Precision and Low quiescent Current Dual Automotive Comparators	2	1.8~5.5 V	15	500	100	90	110	Push Pull mode	MSOP8

Automotive PMIC

	AECQ 100	ISO26262	
Camera	NEW EQ9010 3 x Buck + 1 x LDO 18.5V VIN 1.5A HV Buck1 5.5V 1.5A VOUT LV BUCK2 5.5V 1.5A VOUT LV BUCK3 300mA LDO (60dB PSRR @100kHz) SEQOUT / PG Option QFN-16-3*3 p2p with RT2076A/B	NEW EQ9011 ASIL-B 3 x Buck + 1 x LDO 18.5V VIN 1.5A HV Buck1 5.5V 1.5A VOUT LV BUCK2 5.5V 1.5A VOUT LV BUCK3 300mA LDO (60dB PSRR @100kHz) SEQOUT / PG Out OV/UV/OC Monitor QFN-16-3*3 p2p with RT2078A	NEW EQ9012/14 ASIL-B 3 x Buck + 1 x LDO 18.5V VIN 1.5A HV Buck1 5.5V 1.5A VOUT LV BUCK2 5.5V 1.5A VOUT LV BUCK3 300mA LDO (60dB PSRR @100kHz) I2C Diagnostics PG Out OV/UV/OC Monitor QFN-16-3*3 p2p with RT2078B

特色产品Featured Products



EQ9010

Automotive PMIC for camera module

Features

Three Buck converters

- 2.1MHz SW Frequency
- Peak current mode with Force-PWM mode
- Spread Spectrum and Phase Shift
- HV Buck1: 4~18.5V Vin, 1.5A output (by EPROM)
- LV Buck1: 2.7~5V Vin, 1.5A output, 1.1V Vout (by EPROM)
- LV Buck2: 2.7~5V Vin, 1.5A output, 1.8V Vout (by EPROM)

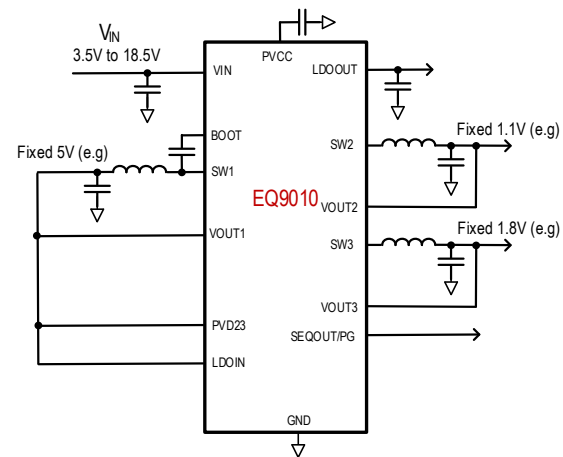
One LDO

- 2.7~5V Vin, 0.75A output (by EPROM)
- 10 Adjustable output based on MTP
- High PSRR: 60dB @100kHz, 40dB @1MHz

Output Function (only one function in one version)

- Sequence control by external SEQOUT pin (A version)
- Power good pin (B version)

- 12 flexible power sequence by MTP
- Package: 3mm * 3mm QFN-16



EQ9011

Automotive ASIL-B PMIC for camera module with SEQOUT

Features

Advanced Diagnostics

- Output OV/UV/OC Monitor with redundant reference
- EPROM CRC / BIST / PG output check

Three Buck converters

- 2.1MHz SW Frequency
- Peak current mode with Force-PWM mode
- Spread Spectrum and Phase Shift
- HV Buck1: 3.5~18.5V Vin, 1.5A output, 5V Vout (by OTP)
- LV Buck1: 2.7~5V Vin, 1.5A output, 1.1V Vout (by OTP)
- LV Buck2: 2.7~5V Vin, 1.5A output, 1.8V Vout (by OTP)

One LDO

- 2.7~5V Vin, 0.3A output
- 10 Adjustable output based on MTP
- High PSRR: 60dB @100kHz, 40dB @1MHz

Output Function

- Seqout for external power supply rail
- Power good pin

- 12 flexible power sequence by MTP
- Package: 3mm * 3mm QFN-16

