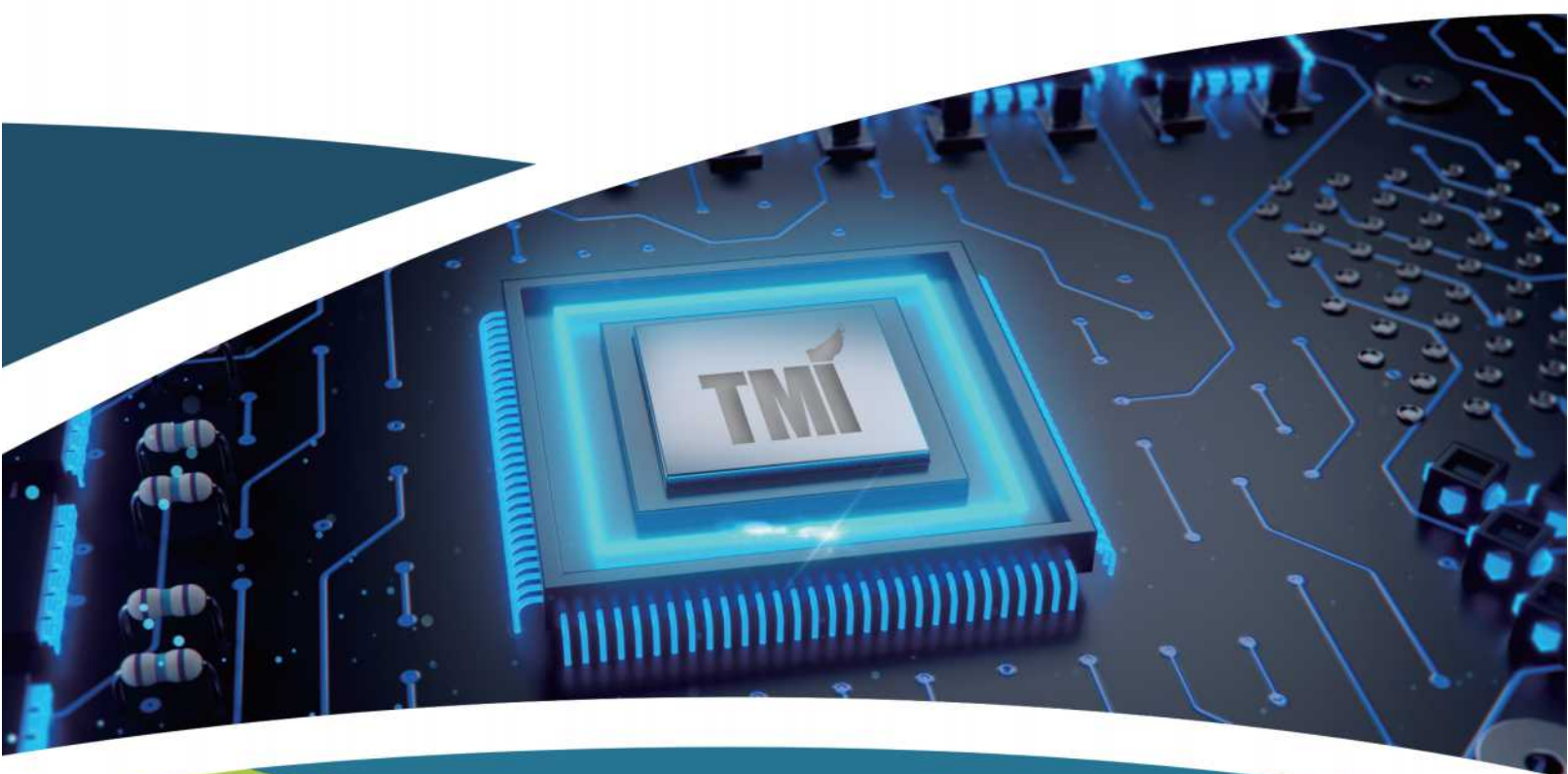




2022

产品选型指南

PRODUCT SELECTION GUIDE

The background of the entire page is a complex, abstract geometric pattern. It consists of numerous thin, dark grey lines that intersect and branch out in various directions, creating a sense of depth and movement. Scattered throughout this network are small circles of different sizes and shades of grey, some solid and some hollow. The overall effect is reminiscent of a technical drawing or a circuit board layout.

2021

产品选型指南

PRODUCT SELECTION GUIDE





Who We Are

我们是谁

拓尔微电子股份有限公司成立于2007年, 专注于芯片技术研发, 主营面向行业应用的高性能模拟及数模混合芯片设计和基于自主芯片的精密模组研制, 致力于为行业用户提供“芯片-模组”的系统解决方案。

What We Do

我们做什么

拓尔微电子以“深耕行业”和“系统级研发”为核心策略,深度挖掘目标领域的应用需求,以为客户提供一流的系统方案为目标开展研发布局。

历经十余年的积累与沉淀,逐步完成了从芯片设计环节向模组研制环节的产业链延伸,公司主要产品包括行业定制芯片与模组、电源管理芯片、马达驱动芯片、锂电管理芯片四大系列。

Our Mission

我们的使命

感受客户的挑战和压力,提供一流的芯片解决方案和服务,持续为客户创造最大价值。

Our Vision

我们的愿景

让每个人在科技创新中受益。

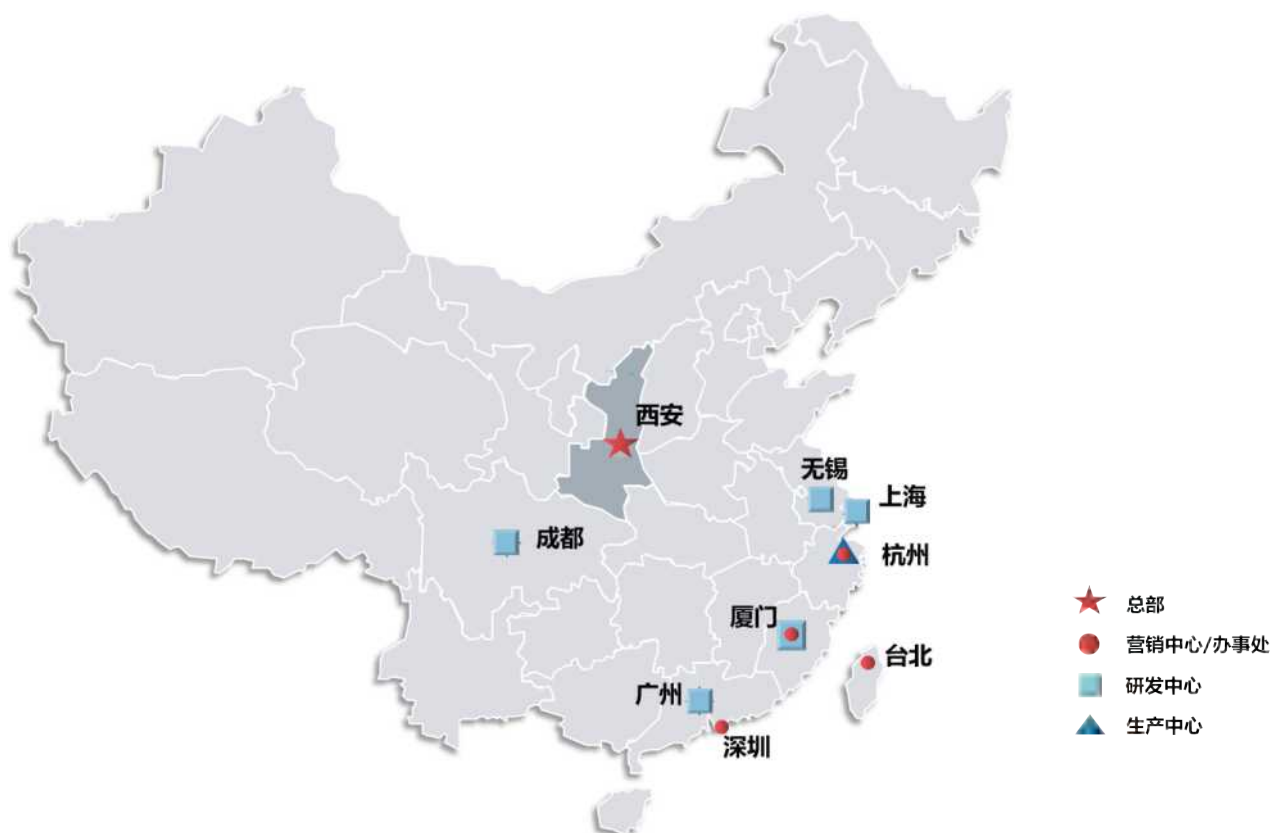
Our Value

我们的价值观

“1要2有3懂”:要真诚、有目标、有担当、懂尊重、懂沟通、懂学习。



Business Layout



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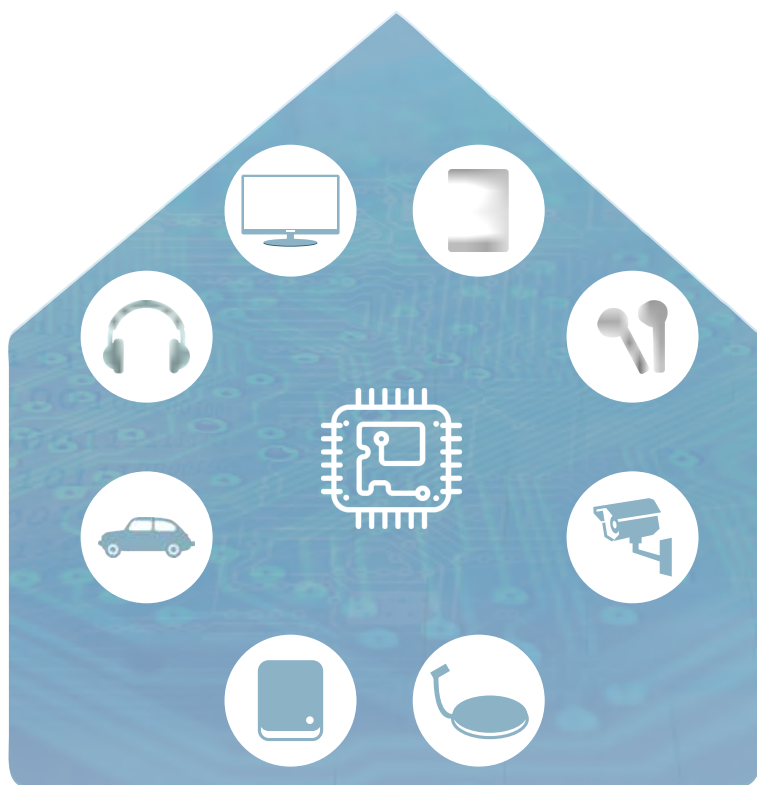
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04 Marketing management

电源管理芯片

公司的电源管理芯片主要包括DC-DC、LDO、PMU、开关保护与复位、断电保护等，主要应用于机顶盒、家端网通产品、智能电视、智能家居、消费类电子、安防监控等产品中，实现的主要功能为电源电压转换与供电、电源保护、断电保护等，以保证终端产品的供电系统稳定可靠。



POWER IC

DC/DC Switching Regulator

Step Down DC/DC Switching Regulator ($V_{IN_MAX} \leq 7V$) (低压Buck转换器)

	Part Number	VIN Range(V)	IOUT(A)	SwitchingFrequency(Hz)	VFB(V)	Iq(μA)	HSFET Rds(on)(Ω)	LSFET Rds(on)(Ω)	Control Mode	Functions	Package	Status
	TMB3191	2.2 to 5.5	0.8	1.0M	1	0.4	0.28	0.22	Hysteresis	Ultra-Low Iq	DFN1.5x2	Developing
	TMB3108	2.5 to 5.5	1	1.5M	0.6 0.6	50	0.29	0.18	CM	PFM/PWM	SOT23-5	MP
	TMB3181	2.5 to 7	0.8	1.5M	0.6	3	0.3	0.15	CM	Ultra-Low Iq	SOT23-6	MP
Hot	TMB3181A	2.5 to 7	0.8	1.5M	0.6	3	0.3	0.15	CM	Ultra-Low Iq	SOT23-5	MP
Hot	TMB3181D	2.5 to 7	0.8	1.5M	0.6	3	0.3	0.15	CM	Ultra-Low Iq	DFN1.6x1.6-6	MP
Hot	TMB3171	2.5 to 6.5	0.8	1.5M	0.6	50	0.3	0.15	CM	PFM/PWM	SOT23-5	MP
	TMB3101	2.5 to 6	1	2.3M	0.6	40	0.3	0.15	CM	Highfrequency	SOT23-5	MP
	TMB3101D	2.5 to 6	1	2.3M	0.6	40	0.3	0.15	CM	HighFrequency	DFN2x2-6	MP
Hot	TMB3101C	2.5 to 6.5	1	2.5M	0.6	40	0.29	0.18	CM	HighFrequency	SOT23-5	MP
	TMB31601	2.5 to 5.5	1	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	DFN1.6x1.6-6	MP
Hot	TMB31601F	2.5 to 5.5	1	1.5M	0.6	50	0.29	0.18	CM	FPWM	DFN1.6x1.6-6	MP
Hot	TMB3408	2.5 to 6	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	SOT23-5	MP
	TMB3408D	2.5 to 6	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	DFN2x2-6	MP
	STI3408B	2.5 to 6	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	SOT23-5	MP
Hot	TMB3408F	2.5 to 5.5	1.2	1.5M	0.6	50	0.29	0.18	CM	FPWM	SOT23-5	MP
Hot	TMB3408C	2.5 to 5.5	1.5	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	SOT23-5	MP
	TMB3411B	2.5 to 6	1.5	1.5M	0.6	40	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	TMB3411	2.5 to 6	2	1.0M	0.6	40	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	STI3411A	2.5 to 6	2	1.0M	0.6	40	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	TMB3112	2.7 to 5.5	2	1.0M	0.6	40	0.12	0.07	CM	PFM/PWM PGood	SOT23-6	MP
Hot	TMB3410	2.5 to 5.5	2	1.0M	0.6	40	0.09	0.05	CM	PFM/PWM	SOT23-5	MP
	TMB3411P	2.7 to 5.5	2	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM PGood	SOT23-6	MP
	TMB3421	2.5 to 6.5	2	1.0M	0.6	40	0.18	0.07	CM	PFM/PWM	SOT23-5	MP
Hot	TMB3112H	2.7 to 5.5	2	2.3M	0.6	50	0.16	0.07	CM	PFM/PWM/ High Frequency	SOT23-5	MP
Hot	TMB31602H	2.5 to 5.5	2	2.3M	0.6	50	0.12	0.07	CM	PFM/PWM/ High Frequency	DFN1.6x1.6-6	MP
	TMB31602A	2.5 to 5.5	2	2.3M	0.6	40	0.12	0.07	CM	PFM/PWM High Frequency	DFN1.6x1.6-6	MP
	TMB3412	2.5 to 5.5	2.5	1.0M	0.6	40	0.11	0.06	CM	PFM/PWM/PGood	SOT23-6	MP
	TMB3113	2.7 to 5.5	3	1.0M		50	0.09	0.05	CM	PFM/PWM/PGood	SOT23-6	MP

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	SwitchingFrequency(Hz)	V _{FB} (V)	I _q (μA)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	TMI3113B	2.7 to 5.5	3	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM	SOT23-5	MP
	TMI3113H2	2.7 to 5.5	3	1.5M	0.6	50	0.09	0.05	CM	PFM/PWM/PGood High Frequency	SOT23-6	MP
Hot	TMI3113H2D	2.7 to 5.5	3	1.5M	0.6	50	0.09	0.05	CM	PFM/PWM/PGood High Frequency	DFN2x2-8	MP
	TMI3113D	2.7 to 5.5	3.5	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM/ PGood	DFN3x3-10	MP
Hot	STI8070A/B	2.5 to 5.5	5	2.1M	I2C DVS	50	0.03	0.02	COT	I2C DVS / PFM/ PWM/ COT	CSP20	MP
Hot	TMI3125	2.7 to 5.5	5	2.1M	0.6	50	0.03	0.02	COT	PFM/PWM/ COT	DFN3x3-10	MP
	TMI3126	2.7 to 6	6	1.2M	0.6	50	0.018	0.016	COT	FPWM/ COT	DFN3x3-14	Developing

Step Down DC/DC Switching Regulator ($7V \leq V_{IN_MAX} \leq 18V$) (中压Buck转换器)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{FB} (V)	I _s (μA)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
	STI3470	3.5 to 18	2	600k	0.6	500	0.12	0.08	CM	PFM	SOT23-6	MP
	STI3472	3.5 to 18	2	600k	0.8	400	0.12	0.07	CM	PFM	SOT23-6	MP
	TMI3280	3.5 to 18	2	600k	0.6	600	0.12	0.08	CM	FPWM	SOT23-6	MP
	TMI3281	3.5 to 18	2	1M	0.6	600	0.12	0.08	CM	FPWM/ High Frequency	SOT23-6	MP
	TMI3282	3.5 to 18	2	1M	0.8	400	0.12	0.08	CM	FPWM/ High Frequency	SOT23-6	MP
Hot	TMI3252S	4.5 to 18	2	600k	0.6	350	0.14	0.07	COT	PFM/ Fast Response	SOT23-6	MP
Hot	TMI3252	4.5 to 18	2	600k	0.8	350	0.14	0.07	COT	PFM/ Fast Response	SOT23-6	MP
	TMI32520	4.5 to 18	2	1M	0.6	350	0.14	0.07	COT	FPWM/ High Frequency	SOT23-6	MP
Hot	TMI3252T	4.5 to 18	2	600k	0.765	350	0.14	0.07	COT	PFM/ Fast Response	SOT23-6	MP
	TMI3252F	4.5 to 18	2	600k	0.8	350	0.14	0.07	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3252TF	4.5 to 18	2	600k	0.765	350	0.14	0.07	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3252SH	4.5 to 18	2	1M	0.6	350	0.14	0.07	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3252SHF	4.5 to 18	2	1M	0.6	350	0.14	0.07	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3252H	4.5 to 18	2	1M	0.8	350	0.14	0.07	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3252TH	4.5 to 18	2	1M	0.765	350	0.14	0.07	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3252SH2	4.5 to 18	2	1M	0.8	350	0.14	0.07	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	STI3470D	4.5 to 18	2	600k	0.6	350	0.14	0.07	COT	PFM/ Fast Response	DFN2x2-6	MP
Hot	TMI3257I	4.5 to 18	2	800k	0.807	300	0.13	0.065	COT	PFM/ Fast Response	SOT563	MP
	TMI3267	4.5 to 18	2	800k	0.6	300	0.09	0.045	COT	PFM/ Fast Response	SOT563	MP

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{FB} (V)	I _S (μA)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	STI3452I	4.5 to 18	2	800k	807	300	0.13	0.065	COT	PFM/ Fast Response	SOT563	MP
	STI3452HF	4.5 to 18	2	1MHz	0.805	300	0.09	0.045	COT	FPWM/ High Frequency/ Fast Response	SOT563	MP
	STI3452HF2	4.5 to 18	2	1MHz	0.6	300	0.09	0.045	COT	FPWM/ High Frequency/ Fast Response	SOT563	MP
Hot	TMI3258/ TMI3258B	4.5 to 18	3	600k	0.807/0.798	300	0.07	0.035	COT	PFM/ Fast Response	SOT563	MP
	STI3453	4.5 to 18	3	1M	0.805	300	0.07	0.035	COT	PFM/ High Frequency/ Fast Response	SOT563	MP
	STI3453FI	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	FPFM	SOT563	MP
Hot	TMI3253	4.5 to 18	3	600k	0.8	300	0.07	0.035	COT	PFM/ Fast Response	SOT23-6	MP
Hot	TMI32530	4.5 to 18	3	1000k	0.6	300	0.07	0.035	COT	FPWM/ Fast Response	SOT23-6	MP
Hot	TMI3253T	4.5 to 18	3	600k	0.765	300	0.07	0.035	COT	PFM/ Fast Response	SOT23-6	MP
	TMI3253TF	4.5 to 18	3	600k	0.765	300	0.07	0.035	COT	FPWM/ Fast Response	SOT23-6	MP
Hot	TMI3253S	4.5 to 18	3	600k	0.6	300	0.07	0.035	COT	PFM/ Fast Response	SOT23-6	MP
	TMI3253H	4.5 to 18	3	1M	0.8	300	0.07	0.035	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3253TH	4.5 to 18	3	1M	0.765	300	0.07	0.035	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3253SH	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	PFM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3253SHF	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	HPWM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3244T	4.5 to 18	4	600k	0.765	300	0.065	0.035	COT	PFM/ Fast Response	SOT23-6	MP
Hot	TMI3286/ TMI3286B	4.5 to 18	4	500k	0.8/0.925	300	0.06	0.035	COT	PFM/ Fast Response	ESOP8	MP
Hot	TMI3255	4.5 to 18	5	600k	0.8	300	0.04	0.025	COT	PFM/ Fast Response	DFN2x2-6FC	MP
Hot	TMI3255T	4.5 to 18	5	600k	0.76	300	0.04	0.02	COT	PFM/ Fast Response	SOT23-6	MP
	TMI3255TF	4.5 to 18	5	600k	0.76	340	0.04	0.02	COT	FPFM/ Fast Response	SOT23-6	MP
Hot	TMI3255S	4.5 to 18	5	600k	0.6	340	0.04	0.02	COT	PFM/ Fast Response	SOT23-6	MP
Hot	TMI3256	4.5 to 18	6	600k	0.8	350	0.03	0.016	COT	PFM/ Fast Response	DFN2x2-6	MP
	TMI32560	4.5 to 18	6	600k	0.765	340	0.04	0.025	COT	FPFM/ Fast Response	ESOP8	MP
	TMI32561	4.5 to 18	6	600k	0.765	340	0.04	0.025	COT	PFM/ Fast Response	ESOP8	MP
	TMI3388	4.5 to 24	8	600k	0.6 or Fixed 3.3V/5V	400	0.02	0.01	COT	PFM/ Fast Response	QFN2.5x2.5-16	Developing
	TMI32120	4.5 to 18	12	400k/800k/1.2M adj.	0.6	600	0.01	0.005	COT	PFM/ Fast Response	QFN3.5x3.5-18	Developing

Step Down DC/DC Switching Regulator ($V_{IN_MAX} \geq 18V$) (高压Buck转换器)

	Part Number	V_{IN} Range (V)	I_{OUT} (A)	Switching Frequency (Hz)	V_{FB} (V)	I_i (μA)	HSFET $R_{ds(on)}$ (Ω)	LSFET $R_{ds(on)}$ (Ω)	Control Mode	Functions	Package	Status
Hot	TMI3341	4.5 to 30	1.2	1.5M	0.8	350	0.25	0.12	COT	Low Noise/ High Frequency/ PFM	TSOT23-6	MP
Hot	TMI3359	4.5 to 30	1.2	1.5M	0.8	350	0.25	0.12	COT	Low Noise/ High Frequency/ FPWM	TSOT23-6	MP
Hot	TMI3342	4.5 to 30	2	370k	0.8	350	0.25	0.12	COT	PFM	TSOT23-6	MP
	TMI3342B	4.5 to 30	2	450k	0.6	350	0.22	0.1	COT	PFM	TSOT23-6	Developing
	TMI33431	4.5 to 30	2.5	570k	0.8	450	0.12	0.08	CM	PFM External COMP./ Adj SS	SOP8	MP
	TMI3343	4.5 to 30	3	340k	0.8	380	0.12	0.08	CM	PFM External COMP./ Adj SS	ESOP8	MP
Hot	TMI3343B	4.5 to 30	3	50k to 1.5M Adj.	0.8	380	0.12	0.08	CM	PFM External COMP./ Adj fsw	ESOP8	MP
Hot	TMI3344	4.5 to 30	3	340k	0.925	380	0.12	0.08	CM	PFM External COMP./ Adj SS	ESOP8	MP
	TMI3343D	4.5 to 30	3	50k to 1.5M Adj.	0.8	380	0.12	0.08	CM	PFM External COMP. / Adj fsw	DFN3x3-10	MP
Hot	TMI33431E	4.5 to 30	3	570k	0.8	380	0.12	0.08	CM	PFM External COMP./ Adj SS	ESOP8	MP
	TMI3331	8 to 30	3	130k to 500k Adj.	0.8	1000	0.08	0.06	CM	FPWM External COMP./ Adj SS	ESOP8	MP
	TMI3331A	8 to 30	3	130k to 500k Adj.	0.8	1000	0.08	0.06	CM	PFM External COMP./ Adj SS	ESOP8	MP
Hot	TMI3492	4.5 to 38	2	120k to 440k Adj.	1.22	800	0.07	0.04	CM	PFM Sync. Buck	SOP8	MP
Hot	TMI3493	4.5 to 38	3	120k to 440k Adj.	1.22	800	0.07	0.04	CM	PFM Sync. Buck	SOP8	MP
Hot	TMI3494	5 to 40	5	200k	0.92	1000	0.04	NA	CM	Non-Sync.Buck Adj I_limit	ESOP8	MP
	TMI36010	4.5 to 60	1	250k to 2.3M Adj.	0.8	300	0.35	NA	CM	Non-Sync.Buck	TSOT23-6	Developing
	TMI36030	4.5 to 60	3	250k to 2.3M Adj.	0.8	300	0.15	NA	CM	Non-Sync.Buck./ Adj SS	ESOP8	Developing

Step Up DC/DC Switching Regulator (Boost转换器)

	Part Number	V_{IN} Range (V)	V_{OUT_Max} (V)	I_{SW_Limit} (A)	Switching Frequency (Hz)	V_{FB} (V)	I_i (μA)	HSFET $R_{ds(on)}$ (Ω)	LSFET $R_{ds(on)}$ (Ω)	Control Mode	Functions	Package	Status
	TMI5120	0.85 to 4.5	4.5	0.85	300k	Fixed V_{OUT}	20	0.65	0.45	CM	Sync.Boost/Fixed 2.2V,2.5V,2.8V,3.0V,3.3V Output Voltage	SOT23	MP
	TMI5120C	0.85 to 4.5	4.5	0.85	300k	0.5	20	0.65	0.45	CM	Non-sync.Boost/ Output Voltage Adjustable	SOT23-5	MP
	STI3508/B	2.7 to 7	30	3	1M	0.6	450	NA	0.08	CM	Non-sync.Boost/ FPWM	SOT23-6	MP
Hot	STI3508C	2.5 to 5.5	30	2.5	1.2M	0.6	450	NA	0.1	CM	Non-sync.Boost/ FPWM	SOT23-6	MP
Hot	STI3508CB	2.5 to 5.5	30	2.5	1.2M	1.2	450	NA	0.1	CM	Non-sync.Boost/ FPWM	SOT23-5	MP
	TMI5130A	2.5 to 5.5	30	2.5	1.2M	0.6	30	NA	0.1	CM	Non-sync.Boost/ PFM	SOT23-6	MP
	TMI5130V5	2.5 to 5.5	Fixed 5V	2.5	1.2M	Fixed 5V V_{out}	30	NA	0.1	CM	Non-sync.Boost/ PFM/Fixed 5V Output Voltage	SOT23-6	Developing
	TMI5122	1.0 to 4.5V	5.5	3.5	2.0M	1	80	0.047	0.068	CM	Sync Boost/ True shutdown	DFN2x2-8	Developing

DC/DC SWITCHING CONTROLLER

Step Down DC/DC Switching Controller (Buck控制器)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{OUT} (V)	V _{FB} (V)	Soft Start	Control Mode	Operation mode	Functions	Package	Status
Hot	IM5200	4 to 36	>5	100K~1000K	0.8 to 24	0.8/DAC	adjustable	CM	FCCM/PFM	I ² Control/DAC /High Efficiency	QFN3×3-20	MP
	TMI3450	4.5 to 37	5	120k to 380k Adj.	1.22 to VIN	1.22	5ms	CM	PFM	Sync.Buck Controller with Ext.P+NMOS	SOP8	MP

Buck-Boost DC/DC Switching Controller (Buck-Boost控制器)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{OUT} (V)	V _{FB} (V)	Soft Start	Control Mode	Operation mode	Functions	Package	Status
	TMI5700	3.9 to 28	>5	100K~1000K	0.59 to 30	0.59/DAC/PWM	adjustable	CM	FCCM/PFM	I ² Control/DAC /High Efficiency	QFN4x4-28	MP

Linear Regulator

Low Dropout Linear Regulator LDO (低压差线性转换器)

	Part Number	V _{IN} Range (V)	I _{OUT,Max} (A)	V _{OUT} or V _{FB} (V)	Accuracy	I _s (μA)	PSRR@ 1kHz (dB)	Noise(μV)	V _{Drop} (mV)	Functions	Package	Status
Hot	TMI6030/B	2.5 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3/Adj from 1.2V	±2%	50	70	200	320mV@300mA	High PSRR	SOT23-5	MP
	TMI6030C	2.5 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3/Adj from 1.2V	±2%	50	70	200	320mV@300mA	High PSRR	SOT23	MP
	TMI6030D	2.5 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3/Adj from 1.2V	±2%	50	70	200	320mV@300mA	High PSRR	DFN4L 1x1	MP
Hot	TMI6050/B	2.5 to 5.5	0.6	1.2/1.5/1.8/2.5/2.8/3.0/3.3/Adj from 1.2V	±2%	50	60	200	600mV@600mA	Fast Response	SOT23-5	MP
	TMI6201	3 to 20	0.15	2.8V/3.3V/5V/Adj from 1.0V	±2%	3	35	100	660mV@150mA	High Voltage Low Iq	SOT23-3 SOT23-5 SOT89-3	Developing
	TMI6038	1.8 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3/Adj from 1.2V	±2%	3	75	50	300mV@300mA	High PSRR/Low Iq/ Low Noise	SOT23-5	Developing
	TMI6011	1.1 to 6.5	1.5	0.8	±2%	1000	52	50	75mV@1.5A	Low Iq Low Noise	DFN3x3-8	Developing

PMIC

Multi-Channel DC/DC PMIC (多通道DC/DC PMIC)

	Part Number	V _{IN} Range (V)	Output Channels	I _{OUT} (A)	Switching Frequency (Hz)	V _{FB} (V)	I _q of each Channel(μA)	Functions	Package	Status
Hot	TMI7003B	2.7 to 6	3	1/1/1	2.3M	0.6	40	3 Channels Low Voltage Buck/ High Frequency	QFN3x3-20	MP
	TMI7003C	2.5 to 5.5	3	1.5/ 1.5/ 1.5	1.5M	0.6	40	3 Channels Low Voltage Buck	QFN3x3-20	MP
	TMI7003	2.7 to 5.5	3	2/2/2	1.0M	0.6	40	3 Channels Low Voltage Buck	QFN3x3-20	MP
	TMI7105B	8 to 30	4	3/ 1/ 0.3/ 0.3	130k to 500k Adj./1.5M	0.8/ 0.6/ 1.2/ 1.2	9000/ 40/ 50/ 50	1 Channel High Voltage Buck 1 Channel Low Voltage Buck 2 Channels Low Voltage LDO	QFN4x4-16	MP

PMIC for LNB (LNB供电专用PMIC)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{OUT} (V)	Boost R _{ds(on)} (Ω)	22kHz Single Ripple(mV)	Functions	Package	Status
Hot	STI8033	2.0 to 24	0.35	1M	Adjustable	0.12	70	Boost Converter with 0.6V and 0.8V selectable VFB Voltage	SOT23-6	MP
	STI8035	9 to 14	0.6	1M	14/ 19	0.12	40	Boost + Linear Regulator	ESOP8	MP
	STI8036	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap.	ESOP8	MP
	STI8036B	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap./ High Accuracy	ESOP8	MP
	TMI8037	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap./ High Accuracy	ESOP8	MP
	TMI8038	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap./ Small Package	MSOP8	MP
	TMI8135	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap.	ESOP8	MP
	TMI8100	9 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap. /Small Package	CPC8	MP
	STI8039	9 to 14	0.8	1M	14/ 19	0.1	30	Boost + Linear Regulator/I2C Interface	QFN3x3-16	Developing

PMIC for Type-C Peripheral (Typec-C/拓展坞PMIC)

	Part No.	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{OUT} (V)	R _{ds(on)} (mΩ) for Buck Leg/Boost	Control Mode	Operation mode	Functions	Package	Status
Hot	IM2605	3.7 to 23	4	300K~450K	1.25~5	35,20(Buck Leg) 15,20(Boost Leg)	CM	FCCM/PFM	Buck-Boost Synchronous Converter /High Frequency/Power Path Control	QFN4×4-28	MP
	IM2603	3.5 to 26	5	475K	1.25~5	40(Buck HS)	CM	PFM	Buck Converter Support Synchronous and Asynchronous/ Power Path Control	QFN3×3-16	MP
	IM2600	3.5 to 26	5	475K	1.25~5	40(Buck HS)	CM	PFM	Buck Converter Support Synchronous and Asynchronous/ Power Path Control	QFN3×3-20	MP

LED Driver

White LED Backlight Drive (背光LED驱动)

	Part Number	V _{IN} Range (V)	V _{OUT} OVP(V)	I _{SW_Limit} (A)	Switching Frequency (Hz)	V _{FB} (V)	I _q (μA)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
	STI9287	2.5 to 7	30	1.7	1.0M	0.2	20	0.2	CM	Non-sync.Boost	SOT23-6	MP
	STI9287B	2.7 to 7	30	1.5	1.0M	0.202	20	0.2	CM	Non-sync.Boost	SOT23-6	MP
Hot	STI9287C	2.7 to 5.5	30	1.5	1.2M	0.2	20	0.15	CM	Non-sync.Boost	SOT23-6	MP
	STI9287CA	2.7 to 5.5	30	1.5	1.2M	0.25	20	0.15	CM	Non-sync.Boost	SOT23-6	MP

Step Down DC/DC LED Drive (降压DC/DC LED驱动)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{FB} (mV)	I _q (μA)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	TMI5101	2.5 to 5.5	1	1.5M	100	50	0.29	0.18	CM	PFM	SOT23-5	MP
Hot	TMI5102	2.5 to 5.5	2	1.5M	100	50	0.15	0.07	CM	PFM	SOT23-5	MP
	TMI5302	4.5 to 30	2	1.0M	100	350	0.14	0.07	CM	PFM/ PWM Dimming	SOT23-6	Developing

USB Port Management

Step Down DC/DC for Car and USB Charger (车充及USB供电降压DC/DC转换器)

	Part Number	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency (Hz)	V _{FB} (V)	I _q (μA)	HS/LS R _{ds(on)} (mΩ)	CS Limit	Operation Mode	Functions	Package	Status
Hot	TMI2242D	8 to 30	2.4	130k to 500k Adj.	0.8	5	80/60	64	FPWM	N+NMOS	ESOP8	MP
	TMI2243	4.5 to 30	2.4	120k	Fixed 5V Output	1	75/40	NA	PFM	P+NMOS/ Fixed 5V Output	SOP8	MP
	TMI2243D	4.5 to 30	2.4	120k	Fixed 5V Output	1	75/40	NA	PFM	P+NMOS// Fixed 5V Output/ 2.7V fixed D+/D-	SOP8	MP
	TMI2242E	8 to 30	2.4	130k to 500k Adj.	0.8	1	80/60	64	PFM	N+NMOS	ESOP8	MP
	TMI2282L	4.5 to 30	2.4	120k to 440k Adj.	1.22	10	75/40	NA	FPWM	P+NMOS	SOP8	MP
	TMI2282	4.5 to 30	3	120k to 440k Adj.	1.22	10	60/35	NA	FPWM	P+NMOS	SOP8	MP
Hot	TMI2283QE	4.5 to 30	3	120k to 440k Adj.	1.22	1	45/25	NA	PFM	P+NMOS 24W Constant Power	SOP8	MP
	TMI2283QED	4.5 to 30	3	75k to 800k Adj.	1.22	1	45/25	NA	PFM	P+NMOS 24W Constant Power	SOP8	MP
	TMI2286D	4.5 to 30	3	120k	1.22	1	25/25	NA	PFM	P+NMOS/EN Control/ External PMOS Driver	SOP8	MP
Hot	TMI2286	4.5 to 30	3.4	120k to 450k Adj.	1.22	1	25/25	NA	PFM	P+NMOS EN Control	SOP8	MP
	TMI2243B	4.5 to 30	3.4	120k	Fixed 5V Output	1	75/40	NA	PFM	P+NMOS/Fixed 5V Output	SOP8	MP
	TMI2245	8 to 30	4.8	130k to 500k Adj.	0.8	1	40/External	64	PFM	N+NMOS / External LS MOS Driver	ESOP8	MP
	TMI2284Q	4.5 to 40	3	120k to 440k Adj.	1.22	1	45/25	NA	PFM	P+NMOS / High Voltage	SOP8	MP

USB Dedicated Charge Port Interface (USB口充电识别IC)

	Part Number	V _{IN} Range (V)	No. of Channel	Dedicated Charge Schemes	"Supports D+/D-=1.2V/1.2V"	BC1.2 Mode	YD/T 1591-2009 Mode	Package	Status
Hot	TMI9130A	4.5 to 5.5	Dual	D+/D- = 2.7V/2V	Yes	Yes	Yes	SOT23-6	MP
	TMI9130B	4.5 to 5.5	Single	D+/D- = 2.7V/2V	Yes	Yes	Yes	SOT23-6	MP
	TMI9130C	4.5 to 5.5	Dual	D+/D- = 2.7V/2.7V	Yes	Yes	Yes	SOT23-6	MP
	TMI9130D	4.5 to 5.5	Single	D+/D- = 2.7V/2.7V	Yes	Yes	Yes	SOT23-6	MP
	TMI9130E	4.5 to 5.5	Single	D+/D- = 2.7V/2.7V or 2.7V/2V	Yes	Yes	Yes	SOT23-5	MP
	TMI9130F	4.5 to 5.5	Single	D+/D- = 2.7V/2V	Yes	Yes	Yes	SOT23-5	MP
	TMI9130I	4.5 to 5.5	Single	D+/D- = 2.7V/2.7V	Yes	Yes	Yes	SOT23-5	MP

USB Dedicated Charge Port Interface (USB口快充识别IC)

Part Number	V _{IN} Range (V)	Support Hisilicon FCP	Support QC2.0/QC3.0	Automatic Select FCP and QC2.0/3.0	Supports D+/D-= 2.7V/2.7V	Supports D+/D-= 1.2V/1.2V	BC1.2 and YD/T 1591-2009 Mode	Package	Status
TMI9290	3.2-6.4	YES	YES	YES	YES	YES	YES	SOT23-6	MP
TMI9290A	3.2-6.4	YES	YES	YES	YES	YES	YES	SOT23-6	MP

USB Type A/C Quick Charging Controller (USB A口/C口快充协议芯片)

	Part No.	V _{IN} Range (V)	USB Port	Type-C Port Role	PD	Protocol	Feedback	Load Switch	V _{CONN}	Authentication PASS	Protection	Package	Status
	IM2404	3~24V	C	DFP	PD2.0/PD 3.0 with PPS	DCP,Apple2.4 A,QC2.0,QC3.0	OPTO/I2C	NMOS	YES	YES	OVP,UVP,OC, OTP,TSOTP,etc.	QFN4x4-16	MP
Hot	IM2406	3~24V	C	DFP	PD2.0/PD 3.0 with PPS	DCP,Apple2.4A, QC2.0/3.0/4.0/ 4.0+,FCP,SCP	OPTO/I2C	NMOS	YES	YES	OVP,UVP,OC, OTP,TSOTP,etc.	QFN4x4-16	MP
	IM2403	3~24V	A+C	DFP	PD2.0/PD 3.0 with PPS	DCP,Apple2.4A, QC2.0/3.0/4.0/ 4.0+,FCP,SCP	FB/ OPTO/I2C	NMOS	YES	YES	OVP,UVP,OC, OTP,TSOTP,etc.	QFN4x4-32	Developing

Protection, Switch and Reset

Load Switch (负载开关)

	Part Number	V _{IN} Range (V)	Current Limit (A)	R _{d(s(on))} (mΩ)	Output Reverse Voltage Protection	FLAG Signal	Output Discharge	EN Logic	Package	Status
	TMI6260A	2.5 to 5.5	ADJ	60	Y	N	N	H	SOT23-5	MP
	TMI6260C	2.5 to 5.5	ADJ	60	Y	Y	N	H	SOT23-6	MP
	TMI6260D	2.5 to 5.5	ADJ	60	Y	Y	N	H	DFN2x2-6	MP
	TMI6261B	2.5 to 5.5	1.5	60	Y	Y	N	H	SOT23-5	MP
	TMI6261C	2.5 to 5.5	2.1	60	Y	Y	N	H	SOT23-5	MP
Hot	TMI6262AL	2.5 to 5.5	ADJ	60	Y	N	N	L	SOT23-5	MP
Hot	TMI6263AH	2.5 to 5.5	2.5	60	Y	Y	Y	H	SOT23-5	MP
Hot	TMI6263AL	2.5 to 5.5	2.5	60	Y	Y	Y	L	SOT23-5	MP
Hot	TMI6263BH	2.5 to 5.5	ADJ	60	Y	N	Y	H	SOT23-5	MP
	TMI6263CH	2.5 to 5.5	2.4	60	Y	N	Y	H	SOT23-5	MP
	TMI6267AH	2.5 to 5.5	1.5	60	Y	N	Y	H	SOT23-5	MP
	TMI6283H	2.4 to 18	2	100	Y	N	Y	H	QFN3x3-16	MP
	TMI6284	2.4 to 30	3	30	Y	N	Y	H	QFN2x2-8	Developing

Power Switch (电源开关)

	Part Number	V _{IN} Range (V)	Current Limit (A)	R _{d(on)} (mΩ)	Input OVP (V)	Output Reverse Voltage Protection	Output Discharge	Soft Start	Package	Status
Hot	TMI6240	2.7 to 18	4	50	19.1	N	Y	Ext. Css Adj.	SOT23-5	MP
	TMI6240S	2.7 to 18	4	50	19.1	N	Y	Ext. Css Adj.	ESOP8	MP
	TMI6220	2.7 to 18	3	75	19.1	N	Y	Ext. Css Adj.	SOT23-5	MP
Hot	TMI6241	2.7 to 6	4	60	6.4	N	Y	Ext. Css Adj.	SOT23-5	MP
	TMI6241A	2.7 to 18	4	60	19.1 OVP 5.7V Clamp	N	Y	Ext. Css Adj.	SOT23-5	MP
	TMI6241D	2.7 to 18	4	60	19.1 OVP 5.7V Clamp	N	Y	Ext. Css Adj.	DFN3x3-10	MP
	TMI6401	2.7 to 38	2.5	160	6 OVP 5.7V Clamp	N	Y	Fixed	SOT23-6	MP
Hot	TMI6402	2.7 to 38	1.7	160	6 OVP 5.7V Clamp	N	Y	Fixed	DFN2x2	MP
	TMI6402T	2.7 to 38	1.7	160	6 OVP 5.7V Clamp	N	Y	Fixed	DFN1.6x1.6	MP
	TMI6403	2.7 to 38	3.6	40	6 OVP 5.7V Clamp	N	Y	Fixed	DFN3x3-8	Developing

Reset IC (复位芯片)

	Part Number	V _{IN} Range (V)	I _q (μA)	Monitor Voltage Threshold (V)	Accuracy	Reset Signal Delay Time (ms)	Output Status	Package	Status
Hot	TMI6809	1.0 to 5.5	5	2.32/ 2.63/ 2.93/3.08/4.00/ 4.38/ 4.63	±2%	240	Low Logic Push-pull	SOT23-3	MP
Hot	TMI6810	1.0 to 5.5	5	2.32/ 2.63/ 2.93/ 3.08/4.00/ 4.38/ 4.63	±2%	240	High Logic Push-pull	SOT23-3	MP
	TMI6803	1.0 to 5.5	5	2.32/ 2.63/ 2.93/3.08/4.00/ 4.38/ 4.63	±2%	240	Low Logic Open Drain	SOT23-3	MP

Dying Gasp Storage and Release Converter (断电保护)

Part Number	V _{IN} Range (V)	I _{Release} (A)	V _{Storage_Max} (V)	I _{Charge} (A)	VFB1 (V)	VFB2 (V)	Function	Package	Status
TMI5111	5 to 18	2	28	0.3	1	1	Charge Pump + Linear Regulator	SOP8	MP

POWER MOUDLE

Step Down Power Moudle

Part	V _{IN} Range (V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{OUT} (V)	V _{FB} (V)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Inductor(uH)	Control Mode	Operation Mode	Functions	Package	Status
IM6001	2.7 to5.5	1	3M	1 to 5	0.6/ Programmed	0.12	0.06	0.47	COT	FCCM/PFM	High Frequency / Ultra-low IQ	QFN3x3-13	MP
IM6021	2.7 to5.5	1	3M	1 to 5	0.6/ Programmed	0.12	0.06	0.47	COT	PFM	High Frequency / Ultra-low IQ / Pgood	QFN2.5x3-12	MP

MCU

MCU

Part No.	V _{IN} Range (V)	Core	Freq.(MHz)	Memory	RAM	Functions	Package	Status
TMU003	2.0 to 5.5	8051	32M	16KB Flash	1KB	16KB flash, 1KB RAM, 18*I/O, PTM, UART, SPI, I ² C, 13*ADC, 2*CMP etc.	TSSOP20 QFN20	MP
IM8502	2.7 to 5.0	8051	8M	16KB MTP	512B	16KB MTP, 512B RAM, 2* I/O, I ² C, UART, SPI, 4*ADC etc.	--	MP



MOTOR DRIVER

马达驱动芯片

公司的马达驱动芯片包括直流有刷和步进马达驱动等,主要应用于智能家居如扫地机器人、洗地机、智能门锁、智能健康、智能马桶等,工业应用如机器人、打印机等领域,产品覆盖中低压、大中小电流等范围,自带各种保护功能,产品可靠稳定,是智能化驱动的优先选择。

DC Motor Driver

直流有刷马达驱动

	Part Number	VM (V)	VCC (V)	Con./ Peak Cur.(A)	$R_{ds(on)}$ (HS+LS)(Ω)	CC mode	Protection	Package	Status
	TMI8113	2.4 - 7.2	/	1.35/2.0	0.55	—	TSD	SOT23-6	MP
	TMI8118	1.6 - 7.2	/	1.35/2.0	0.55	—	TSD	SOT23-6	MP
	TMI8118S	1.6 - 7.2	/	1.45/2.0	0.53	—	TSD	SOP8	MP
Hot	TMI8837	1.8 - 11	1.8 - 7	1.5/2.0	0.65	—	UVLO, TSD, OCP	DFN2x2-8	MP
	TMI8837S	1.8 - 11	1.8 - 7	1.4/1.8	0.65		UVLO, TSD, OCP	SOP8	MP
Hot	TMI8230	1.8 - 11	1.8 - 7	2.8/4.0	0.285	—	UVLO, TSD, OCP	DFN2x2-8	MP
	TMI8230S	1.8 - 11	1.8 - 7	2.5/3.5	0.285		UVLO, TSD, OCP	SOP8	MP
Hot	TMI8260SP	5 - 18	/	4.0/8.0	0.08	—	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8260DP	5 - 18	/	5.5/10.0	0.09		UVLO, TSD, OCP	DIP8	MP
Hot	TMI8261	5 - 18	/	5.0/12.0	0.065	—	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8340	5 - 30	/	4.0/8.0	0.091		UVLO, TSD, OCP	SOP8	MP
Hot	TMI8876/Q	4.5 - 37	/	2.0/3.5	0.49	✓	UVLO, TSD, OCP	HTSSOP16 QFN3x3-16	MP
Hot	TMI8110	4.5 - 37	/	2.0/3.5	0.49	✓	UVLO, TSD, OCP	ESOP8	MP
	TMI8920/D	2.7 - 37	/	0.5/0.7	1.4 (LS)	—	UVLO, TSD, OCP	SOT23-6 DFN2x2-6	MP
	TMI8720PD	5 - 40	/	—	Gate Driver		UVLO, TSD, OCP	DFN3x3-10	MP
Hot	TMI8460SP	5 - 40	/	4.0/8.0	0.095	—	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8870/1/2	6.8 - 45	/	1.8/3.6	0.91	✓	UVLO, TSD, OCP	ESOP8	MP

STM Motor Driver

步进马达驱动

	Part Number	VM (V)	Input Mode	Channel	Con./ Peak Cur.(A)	$R_{ds(on)}$ (HS+LS)(Ω)	Protection	Package	
	TMI8150	2.5 - 5.5	SPI(1/64 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	UVLO, TSD	QFN3x3-20	MP
Hot	TMI8150B	2.5 - 5.5	SPI(1/128 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	UVLO, TSD	QFN3x3-20	MP
	TMI8151	2.5 - 5.5	SPI(1/256 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	UVLO, TSD	QFN3x3-20	MP
	TMI8120	2.4 - 7.2	PWM	2	1.4/2.0	0.55	TSD	QFN3x3-20	MP
Hot	TMI8548	4.0 - 16	PWM	2	1.0/1.6	0.83	UVLO, TSD, OCP	SSOP10	MP
	TMI8549	4.0 - 16	PWM (1 line)	2	1.0/1.6	0.83	UVLO, TSD, OCP	SSOP10	MP
	TMI88221	4.0 - 20	1/64 step	2	1.0/1.6	0.83	UVLO, TSD, OCP	ESOP8	MP
	TMI8423	6.8 - 45	PWM	2	1.2/3.6	0.91	UVLO, TSD, OCP	HTSSOP20	MP
Hot	TMI8262	8 - 45	PWM	2	1.5/1.6	0.9	UVLO, TSD, OCP	HTSSOP-28	MP
	TMI8262Q	8 - 45	PWM	2	1.5/1.6	0.9	UVLO, TSD, OCP	QFN5*5-28	MP

BATTERY

锂电管理芯片

公司的锂电保护芯片产品主要包括单节至14节锂离子和锂聚合物电池的保护和均压芯片等, 主要应用于单节和多节锂离子和锂聚合物电池组中, 实现的功能主要是在充电和放电过程中对电池组的过充电保护, 过放电保护, 欠压保护, 过电流保护, 过温保护等。



锂电池充电管理

电池充电

型号	V _{IN} Range (V)	V _{BAT} (V)	I _{CHG} (A)	I _{BAT_STB} (μA)	V _{OUT_Max} (V)	功能	封装	状态
TMI4054	2 to 8	4.2 ± 1%	Adj. up to 0.8	2.500	/	ICHG adjustable	SOT23-5	MP
TMI4054H	2 to 8	4.35 ± 1%	Adj. up to 0.8	2.500	/	ICHG adjustable	SOT23-5	MP
TMI4056	2 to 8	4.2 ± 1%	Adj. up to 1.0	2.500	/	ICHG adjustable/NTC Thermal Sense	SOP8	MP
TMI4056H	2 to 8	4.35 ± 1%	Adj. up to 1.0	2.500	/	ICHG adjustable/NTC Thermal Sense	SOP8	MP
TMI4056E	2 to 8	4.2 ± 1%	Adj. up to 1.0	2.500	/	ICHG adjustable/NTC Thermal Sense	ESOP8	MP
TMI4156/H	2.5-26	4.2-4.35	Adj. up to 1.0	2.500	/	High VIN with System Power 5.7V Clamp Output	DFN3x3-8	MP
STI8019	4.3 to 6	4.2 ± 2%	Adj. up to 1.0	40.00	6 v	Linear Charger + Boost Converter	QFN4x4-24	MP

锂电池保护IC

单节锂电保护IC, 正极保护

型号	过冲电压 V _{OVP} (V)	过冲恢复电压 V _{OVR} (V)	过放电压 V _{UVP} (V)	过放解除电压 V _{UVR} (V)	放电过流检测电压 V _{DOCP} (mV)	封装	状态
SIT8036	4.300	4.100	2.500	2.900	180	SOT23-6	MP

2节锂电保护

型号	过冲电压 V _{OVP} (V)	过冲恢复电压 V _{OVR} (V)	过放电压 V _{UVP} (V)	过放解除电压 V _{UVR} (V)	放电过流检测电压 V _{DOCP} (mV)	封装	状态
TMI4022A	4.300	4.100	2.900	3.000	200	SOT23-6	MP
TMI4022B	4.280	4.080	2.900	3.000	200	SOT23-6	MP
TMI4022C	4.250	4.050	2.500	3.000	200	SOT23-6	MP 优先推荐
TMI4021	3.650	3.400	2.000	2.500	200	SOT23-6	MP

3节锂电保护IC (外接采样电阻)

型号	过冲电压 V_{OVP} (V)	过冲恢复电压 V_{OVR} (V)	过放电压 V_{UVP} (V)	过放解除电压 V_{UVR} (V)	放电过流检测电压 V_{DOCP} (mV)	充电过流检测电压 V_{COCp} (mV)	放电过温保护(°C)	充电过温保护(°C)	封装	状态
TMI4031A	4.250	4.150	2.700	3.000	100	50	70	50	SOP8	MP
TMI4031B	3.650	3.500	2.300	2.700	100	50	70	50	SOP8	MP

3/4 节锂电保护IC (NMOS Control)

型号	过冲电压 V_{OVP} (V)	过冲恢复电压 V_{OVR} (V)	过放电压 V_{UVP} (V)	过放解除电压 V_{UVR} (V)	放电过流检测电压 V_{DOCP} (V)	过流保护 OCP	过放锁定	断线检测	封装	状态
SIT8993A	4.250	4.150	2.700	3.000	0.10	Yes	Yes	Yes	TSSOP16	MP 优先推荐
SIT8993B	3.900	3.600	2.200	2.700	0.10	Yes	Yes	Yes	TSSOP16	MP
SIT8993C	4.250	4.150	2.700	3.000	0.05	Yes	Yes	Yes	TSSOP16	MP
SIT8993D	3.850	3.750	2.200	2.500	0.10	Yes	Yes	Yes	TSSOP16	MP
SIT8993E	3.750	3.650	2.300	2.500	0.10	Yes	Yes	Yes	TSSOP16	MP 优先推荐
SIT8993F	3.900	3.600	2.200	2.700	0.05	Yes	Yes	Yes	TSSOP16	MP

3/4 节锂电保护IC (PMOS Control)正极保护

型号	过冲电压 V_{OVP} (V)	过冲恢复电压 V_{OVR} (V)	过放电压 V_{UVP} (V)	过放解除电压 V_{UVR} (V)	过流1检测电压 V_{I1} (V)	0V充电	封装	状态
TMI4042A	4.250	4.150	2.700	3.000	0.20	Yes	TSSOP16	MP 优先推荐
TMI4042B	3.900	3.800	2.300	2.700	0.30	Yes	TSSOP16	MP
TMI4042C	4.250	4.100	2.500	3.000	0.10	Yes	TSSOP16	MP
TMI4042D	4.275	4.075	2.300	2.700	0.13	Yes	TSSOP16	MP
TMI4042E	4.250	4.100	3.000	3.200	0.10	Yes	TSSOP16	MP

4/5 节锂电保护IC

型号	过冲电压 V_{OVP} (V)	过冲恢复 电压 V_{OVR} (V)	均衡开启 电压 V_{BL} (V)	过放电压 V_{UVP} (V)	过放解除 电压 V_{UVR} (V)	放电过流 检测电压 V_{DOCP} (V)	充电过流 检测电压 V_{COCP} (V)	过放 锁定	断线 检测	封装	状态
SIT8995A	4.250	4.150	4.200	2.700	3.00	0.1	0.05	Yes	Yes	TSSOP20	MP 优先推荐
SIT8995B	3.900	3.600	3.850	2.200	2.70	0.1	0.05	Yes	Yes	TSSOP20	MP
SIT8995C	3.850	3.750	3.650	2.000	2.50	0.1	0.015	Yes	Yes	TSSOP20	MP
SIT8995D	3.750	3.550	3.515	2.200	2.70	0.1	0.04	Yes	Yes	TSSOP20	MP 优先推荐
SIT8995F	4.175	4.075	4.125	2.700	3.00	0.1	0.04	Yes	Yes	TSSOP20	MP
SIT8995G	4.225	4.125	4.175	2.700	3.00	0.1	0.04	Yes	Yes	TSSOP20	MP

6/7 节锂电保护IC

型号	过冲电压 V_{OVP} (V)	过冲恢复 电压 V_{OVR} (V)	均衡开启 电压 V_{BL} (V)	过放电压 V_{UVP} (V)	过放解除 电压 V_{UVR} (V)	放电过流 检测电压 V_{DOCP} (V)	充电过流 检测电压 V_{COCP} (V)	过放 锁定	断线 检测	封装	状态
SIT8997A	4.250	4.150	4.200	2.700	3.00	0.1	0.05	Yes	Yes	TSSOP20	MP 优先推荐
SIT8997B	3.900	3.600	3.850	2.200	2.70	0.1	0.05	Yes	Yes	TSSOP20	MP
SIT8997C	3.850	3.750	3.800	2.200	2.50	0.1	0.05	Yes	Yes	TSSOP20	MP
SIT8997D	3.750	3.550	3.515	2.200	2.70	0.1	0.04	Yes	Yes	TSSOP20	MP 优先推荐
SIT8997F	4.175	4.075	4.125	2.700	3.00	0.1	0.04	Yes	Yes	TSSOP20	MP
SIT8997G	4.225	4.125	4.175	2.700	3.00	0.1	0.04	Yes	Yes	TSSOP20	MP
SIT8997L	3.600	3.500	3.450	2.200	2.70	0.1	0.04	Yes	Yes	TSSOP20	MP

7/8/9/10 节锂电保护IC

型号	过冲电压 V_{OVP} (V)	过冲恢复 电压 V_{OVR} (V)	均衡开启 电压 V_{BL} (V)	过放电压 V_{UVP} (V)	过放解除 电压 V_{UVR} (V)	放电过流 检测电压 V_{DOCP} (V)	充电过流 检测电压 V_{COCP} (V)	过放 锁定	断线 检测	封装	状态
TMI4101A	4.250	4.150	4.200	2.700	3.00	0.1	0.05	Yes	Yes	SSOP28	MP 优先推荐
TMI4101B	3.900	3.600	3.850	2.200	2.70	0.1	0.05	Yes	Yes	SSOP28	MP
TMI4101D	3.750	3.550	3.515	2.200	2.70	0.1	0.04	Yes	Yes	SSOP28	MP 优先推荐
TMI4101G	4.225	4.125	4.175	2.700	3.00	0.1	0.04	Yes	Yes	SSOP28	MP

11/12/13/14 节锂电保护IC

型号	过冲电压 V_{OVP} (V)	过冲恢复 电压 V_{OVR} (V)	均衡开启 电压 V_{BL} (V)	过放电压 V_{LVP} (V)	过放解除 电压 V_{LVR} (V)	放电过流 检测电压 V_{DOCP} (V)	充电过流 检测电压 V_{COCP} (V)	过放 锁定	断线 检测	封装	状态
TMI4151A	4.250	4.150	4.200	2.700	3.00	0.1	0.05	Yes	Yes	TSSOP30	MP 优先推荐
TMI4151B	3.900	3.600	3.850	2.200	2.70	0.1	0.05	Yes	Yes	TSSOP30	MP
TMI4151D	3.750	3.550	3.515	2.200	2.70	0.1	0.04	Yes	Yes	TSSOP30	MP 优先推荐
TMI4151G	4.225	4.125	4.175	2.700	3.00	0.1	0.04	Yes	Yes	TSSOP30	MP

2/3/4/5 节锂电二次保护IC

型号	过充电检测 电压 V_{OVN} (V)	过充电释放 迟滞电压 V_{HYS} (V)	过放电压 V_{LVP} (V)	静态电流 I_q (μA)	延时 (s)	输出	封装	状态
TMI4302A	3.900	0.100	<2	<2.5	2	CMOS, Active H	MSOP8	MP
TMI4301A	4.225	0.100	<2	<2.5	2	CMOS, Active H	MSOP8	MP
TMI4301B	4.250	0.100	<2	<2.5	2	CMOS, Active H	MSOP8	MP
TMI4301C	4.225	0.100	<2	<2.5	2	CMOS, Active H	SOP8	MP 优先推荐
SIT1051SA	4.225	0.100	<2	<2.5	2	CMOS, Active H	MSOP8	MP
SIT1051SB	4.250	0.100	<2	<2.5	2	CMOS, Active H	MSOP8	MP
SIT1051SC	4.225	0.100	<2	<2.5	2	CMOS, Active H	SOP8	MP 优先推荐
SIT1051SC	4.250	0.100	<2	<2.5	2	NMOS open drain, Active H	SOP8	MP



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