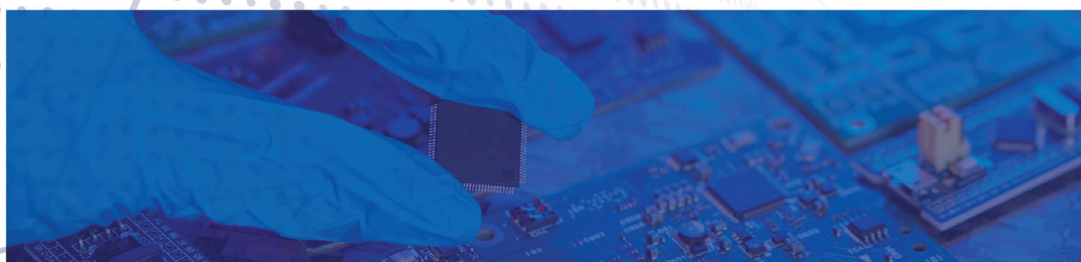


TOLL MICROELECTRONIC TOLL PRODUCT SELECTION MANUAL



拓尔微电子产品选型手册 2024-H2

让每个人在科技创新中受益

LET EVERYONE BENEFIT FROM SCIENCE, TECHNOLOGY AND INNOVATION

 **202** 项+

授权专利，其中96项发明专利、13项软件著作权和141集成电路布图。

 **500** 款+

量产芯片产品，构建了电源管理、马达驱动、锂电池管理和接口控制芯片等数条产品线。

 **50** 亿+

年出货量，与消费电子、工业、通信、汽车电子等领域知名企业建立合作

 **20** 项+

重点荣誉，国家重点专精特新“小巨人”、全国硬科技企业之星、隐形冠军培育入库、省级瞪羚企业、陕西省知识产权优势企业

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。

TOLL
Microelectronic



拓尔微电子

布局全球的中国芯

业务布局：

■ 西安:总部研发、运营、系统方案

■ 深圳:营销中心

■ 杭州/西安/台北/韩国/青岛/北京/佛山/上海:销售办事处

产品布局：

解决方案模组生产+研发

BMS芯片研发

数模混合芯片研发

汽车芯片研发



1000+优质客户

国产化战略加持，多芯片解决方案

个人消费、智能家居、生产办公、智能物联等

快速发展

公司已成功进入个人消费电子、智能家居、网络通信、工业控制等多个应用行业标杆客户的供应链并实现批量供货，

在国产化战略加持下，收入获得高速增长。

未来将积极推进在计算机、汽车电子及医疗健康等其他细分行业的产品布局,打造新的利润增长点。

供应链

优秀的供应链管理能力和晶圆厂、封测厂形成产业链战略合作关系

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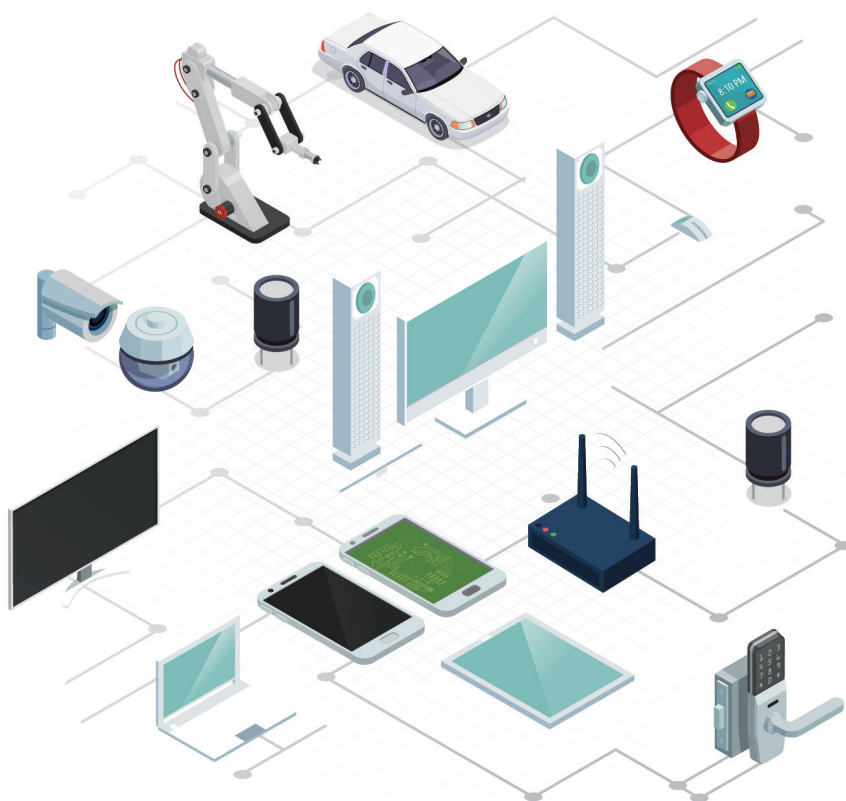
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拓尔电源管理芯片主要包括DC-DC、LDO、PMIC、开关保护与复位、断电保护、AC-DC、PoE、Local Dimming等，主要应用于消费电子、通信、工业、汽车等产品中，实现的主要功能为电源电压转换与供电、电源保护、断电保护等，以保证终端产品的供电系统稳定可靠。



DC/DC 开关转换器
Buck 转换器 $V_{IN_MAX} \leq 7V$

	Part Number	V_{IN} Range(V)	I_{OUT} (A)	Switching Frequency(Hz)	V_{FB} (V)	I_q (μ A)	HS_FET $R_{ds(on)}$ (Ω)	LS_FET $R_{ds(on)}$ (Ω)	Control Mode	Functions	Package	Status
	TMI3108	2.5 to 5.5	1	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	SOT23-5	MP
	TMI3181	2.5 to 6.5	0.8	1.2M	0.6	3	0.3	0.15	CM	Ultra-Low Iq/ PG	SOT23-6	MP
Hot	TMI3181A	2.5 to 6.5	0.8	1.2M	0.6	3	0.3	0.15	CM	Ultra-Low Iq	SOT23-5	MP
Hot	TMI3181D	2.5 to 6.5	0.8	1.2M	0.6	3	0.3	0.15	CM	Ultra-Low Iq	DFN1.6x1.6-6	MP
	TMI3171	2.5 to 6.5	0.8	1.5M	0.6	50	0.3	0.15	CM	PFM/PWM	SOT23-5	MP
	TMI3101	2.5 to 6.0	1	2.3M	0.6	40	0.3	0.15	CM	PFM/PWM/ High frequency	SOT23-5	MP
	TMI3101D	2.5 to 6.0	1	2.3M	0.6	40	0.3	0.15	CM	PFM/PWM/ High Frequency	DFN2x2-6	MP
Hot	TMI3101C	2.5 to 5.5	1	2.5M	0.6	40	0.29	0.18	CM	PFM/PWM/ High Frequency	SOT23-5	MP
	TMI31601	2.5 to 5.5	1	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	DFN1.6x1.6-6	MP
Hot	TMI31601F	2.5 to 5.5	1	1.5M	0.6	2000	0.29	0.18	CM	FPWM	DFN1.6x1.6-6	MP
	TMI3408	2.5 to 6.0	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	SOT23-5	MP
Hot	TMI3108K	2.5 to 5.5	1.2	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	SOT23-5	MP
	TMI3408D	2.5 to 6.0	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	DFN2x2-6	MP
	STI3408B	2.5 to 6.0	1.2	1.5M	0.6	40	0.25	0.1	CM	PFM/PWM	SOT23-5	MP
Hot	TMI3408F	2.5 to 5.5	1.2	1.5M	0.6	2000	0.29	0.18	CM	FPWM	SOT23-5	MP
Hot	TMI3408C	2.5 to 5.5	1.5	1.5M	0.6	50	0.29	0.18	CM	PFM/PWM	SOT23-5	MP
	TMI3411B	2.5 to 6.0	1.5	1.5M	0.6	40	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	TMI3411	2.5 to 6.0	2	1.0M	0.6	40	0.18	0.07	CM	PFM/PWM	SOT23-5	MP
	STI3411A	2.5 to 6.0	2	1.0M	0.6	40	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	TMI3112	2.7 to 5.5	2	1.0M	0.6	40	0.12	0.07	CM	PFM/PWM/ PG	SOT23-6	MP
Hot	TMI3410	2.5 to 5.5	2	1.0M	0.6	40	0.12	0.07	CM	PFM/PWM	SOT23-5	MP
	TMI3411P	2.7 to 5.5	2	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM/ PG	SOT23-6	MP
	TMI3421	2.5 to 6.0	2	1.0M	0.6	40	0.18	0.07	CM	PFM/PWM	SOT23-5	MP
Hot	TMI3112H	2.7 to 5.5	2	2.3M	0.6	40	0.12	0.07	CM	PFM/PWM/ High Frequency	SOT23-5	MP
New	TMI3112F	2.5 to 5.5	2	1.0M	0.6	4000	0.12	0.07	CM	FPWM	SOT23-5	MP
Hot New	TMI31602F	2.5 to 5.5	2	1.0M	0.6	4000	0.12	0.07	CM	FPWM	DFN1.6x1.6-6	ES
Hot	TMI31602H	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
	TMI3412	2.5 to 5.5	2.5	1.0M	0.6	40	0.11	0.06	CM	PFM/PWM/ PG	SOT23-6	MP
	TMI3113	2.7 to 5.5	3	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM/ PG	SOT23-6	MP

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _q (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET 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/ PG/ 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/ PG/ High Frequency	DFN2x2-8	MP
	TMI3131	2.5 to 5.5	3	3.0M	0.6	300	0.026	0.02	COT	FPWM/PWM/COT	DFN2x2-8	ES
	TMI3113D	2.7 to 5.5	3.5	1.0M	0.6	50	0.09	0.05	CM	PFM/PWM/ PG	DFN3x3-10	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
	TMI3125F	2.7 to 5.5	5	2.1M	0.6	20000	0.03	0.02	COT	FPWM/ COT	DFN3x3-10	MP

Buck 转换器 I²C DVS(V_{IN_MAX} ≤ 7V)

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	I²C address	V _{OUT} Default(V)	I _q (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	STI8070A	2.7 to 5.5	5	2.1M	0x80	1.0V/1.0V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
Hot	STI8070B	2.7 to 5.5	5	2.1M	0x82	1.0V/1.0V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
Hot	STI8070C	2.7 to 5.5	5	2.1M	0xC0	1.0V/1.0V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
New	STI8070D	2.7 to 5.5	5	2.1M	0xC0	1.1V/1.2V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
New	STI8070E	2.7 to 5.5	5	2.1M	0xC0	0.9V/OFF	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
New	STI8070F	2.7 to 5.5	5	2.1M	0xC0	1.02V/1.15V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP
New	STI8070G	2.7 to 5.5	5	2.1M	0xC0	0.8V/0.8V	50	0.03	0.02	COT	PFM/PWM/ COT	CSP20	MP

Buck 转换器 (7V < V_{IN_MAX} ≤ 24V)

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _q (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET 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/PWM	SOT23-6	MP
	STI3472	3.5 to 18	2	600k	0.8	400	0.12	0.07	CM	PFM/PWM	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
Hot	TMI3252S	4.5 to 18	2	600k	0.6	350	0.14	0.07	COT	PFM/PWM/ Fast Response	SOT23-6	MP
Hot	TMI3252	4.5 to 18	2	600k	0.8	350	0.14	0.07	COT	PFM/PWM/ Fast Response	SOT23-6	MP
	TMI32520	4.5 to 18	2	1M	0.6	350	0.14	0.07	COT	FPWM/ Fast Response	SOT23-6	MP
Hot	TMI3252T	4.5 to 18	2	600k	0.765	350	0.14	0.07	COT	PFM/PWM/ 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/PWM/ High Frequency/ Fast Response	SOT23-6	MP

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _q (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	TMI3252SHF	4.5 to 18	2	1M	0.6	350	0.14	0.07	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3252TH	4.5 to 18	2	1M	0.765	350	0.14	0.07	COT	PFM/PWM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3252SH2	4.5 to 18	2	1M	0.8	350	0.14	0.07	COT	FPWM /High Frequency/Fast Response	SOT23-6	MP
	TMI3257I	4.5 to 18	2	800k	0.807	300	0.13	0.065	COT	PFM/PWM/Fast Response	SOT563	MP
Hot	TMI3267	4.5 to 18	2	800k	0.6	300	0.09	0.045	COT	PFM/PWM/ Fast Response	SOT563	MP
	STI3452I	4.5 to 18	2	800k	0.807	300	0.13	0.065	COT	PFM/PWM/ Fast Response	SOT563	MP
	STI3452HF	4.5 to 18	2	1M	0.805	300	0.09	0.045	COT	FPWM/ High Frequency/Fast Response	SOT563	MP
	STI3452HFI	4.5 to 18	2	1M	0.6	300	0.09	0.045	COT	FPWM/ High Frequency/Fast Response	SOT563	MP
Hot	TMI3258	4.5 to 18	3	600k	0.807	300	0.07	0.035	COT	PFM/PWM/ Fast Response	SOT563	MP
	STI3453	4.5 to 18	3	1M	0.805	300	0.07	0.035	COT	PFM/PWM/ High Frequency/ Fast Response	SOT563	MP
	STI3453FI	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	FPWM/ High Frequency/Fast Response	SOT563	MP
Hot	TMI3253	4.5 to 18	3	600k	0.8	300	0.07	0.035	COT	PFM/PWM/Fast Response	SOT23-6	MP
	TMI3273T	4.5 to 18	3	600k	0.765	300	0.08	0.040	COT	PFM/PWM/Fast Response	SOT23-6	MP
New	TMI3273	4.5 to 18	3	600k	0.8	300	0.08	0.040	COT	PFM/PWM/Fast Response	SOT23-6	MP
New	TMI3273TF	4.5 to 18	3	600k	0.765	300	0.08	0.040	COT	FPWM/ Fast Response	SOT23-6	ES
	TMI3278	4.5 to 18	3	600k	0.807	300	0.08	0.040	COT	PFM/PWM/Fast Response	SOT563	MP
New	TMI3278H	4.5 to 18	3	1M	0.805	300	0.08	0.040	COT	PFM/PWM/ High Frequency/ Fast Response	SOT563	MP
New	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/PWM/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/PWM/Fast Response	SOT23-6	MP
	TMI3253TH	4.5 to 18	3	1M	0.765	300	0.07	0.035	COT	PFM/PWM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3253SH	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	PFM/PWM/ High Frequency/ Fast Response	SOT23-6	MP
	TMI3253SHF	4.5 to 18	3	1M	0.6	300	0.07	0.035	COT	FPWM/High Frequency/ Fast Response	SOT23-6	MP
	TMI3259	4.5 to 18	4	580k	0.8	300	0.06	0.03	COT	PFM/PWM/ Fast Response	SOT563	MP
Hot	TMI3244T	4.5 to 18	4	550k	0.765	300	0.065	0.03	COT	PFM/PWM/Fast Response	SOT23-6	MP
Hot	TMI3244TF	4.5 to 18	4	550k	0.765	300	0.065	0.03	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3286/ TMI3286B	4.5 to 18	4	500k	0.8/ 0.925	300	0.06	0.035	COT	PFM/PWM/ Fast Response	ESOP8	MP
New	TMI3254S	4.5 to 18	4	600k	0.6	340	0.04	0.02	COT	PFM/PWM/ Fast Response	SOT23-6	MP

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _c (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
New	TMI3254SF	4.5 to 18	4	600k	0.6	340	0.04	0.02	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3255	4.5 to 18	5	600k	0.8	340	0.04	0.025	COT	PFM/PWM/ Fast Response	DFN2x2-6FC	MP
Hot	TMI3255B	4.5 to 18	5	600k	0.8	340	0.04	0.025	COT	PFM/PWM/High Efficiency/ Fast Response	DFN2x2-6FC	MP
Hot	TMI3255T	4.5 to 18	5	600k	0.76	340	0.04	0.02	COT	PFM/PWM/ Fast Response	SOT23-6	MP
	TMI3255TF	4.5 to 18	5	600k	0.76	340	0.04	0.02	COT	FPWM/ Fast Response	SOT23-6	MP
Hot	TMI3255S	4.5 to 18	5	600k	0.6	340	0.04	0.02	COT	PFM/PWM/ Fast Response	SOT23-6	MP
	TMI3255SF	4.5 to 18	5	600k	0.6	340	0.04	0.02	COT	FPWM/ Fast Response	SOT23-6	MP
	TMI3256	4.5 to 18	6	600k	0.8	340	0.03	0.016	COT	PFM/PWM/ Fast Response	DFN2x2-6	MP
	TMI3256S	4.5 to 18	6	400k	0.6	340	0.04	0.02	COT	PFM/PWM/ Fast Response	SOT23-6	MP
Hot	TMI3256B	4.5 to 18	6	600k	0.8	340	0.03	0.016	COT	PFM/PWM/High Efficiency/ Fast Response	DFN2x2-6	MP
Hot	TMI32560	4.5 to 18	6	600k	0.765	340	0.04	0.025	COT	FPWM/ Fast Response	ESOP8	MP
Hot	TMI32561	4.5 to 18	6	600k	0.765	340	0.04	0.025	COT	PFM/PWM/ Fast Response	ESOP8	MP
New	TMI32080	4.5 to 18	8	400k/800k/1.2M Adj.	0.6	600	0.01	0.005	COT	PFM/PWM/ Fast Response	QFN3.5x3.5-18	MP
New Hot	TMI32120	4.5 to 18	12	400k/800k/1.2M Adj.	0.6	600	0.01	0.005	COT	PFM/PWM/ Fast Response	QFN3.5x3.5-18	MP
New	TMI3388A	4.5 to 24	8	600k	0.6	400	0.02	0.01	COT	PFM/PWM/ Fast Response	QFN2.5x2.5-16	MP
	TMI3388B	5.5 to 24	8	600k	Fixed 3.3V	400	0.02	0.01	COT	PFM/PWM/ Fast Response	QFN2.5x2.5-16	ES
New	TMI3388C	5.5 to 24	8	600k	Fixed 5.1V	400	0.02	0.01	COT	PFM/PWM/ Fast Response	QFN2.5x2.5-16	MP

Buck 转换器 V_{IN_MAX} ≥ 30V

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _c (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET 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/PWM	SOT23-6	MP
Hot	TMI3359	4.5 to 30	1.2	1.5M	0.8	350	0.25	0.12	COT	Low Noise/ High Frequency/ FPWM	SOT23-6	MP
New	TMI3341C	4.5 to 30	1.5	600k	0.791	350	0.2	0.09	COT	Low Noise/ High Frequency/ PFM/PWM	SOT23-6	MP
	TMI3342	4.5 to 30	2	370k	0.8	350	0.25	0.12	COT	PFM/PWM	SOT23-6	MP
New	TMI3342B	4.5 to 30	2	500k	0.6	350	0.15	0.078	COT	PFM/PWM	TSOT23-6	MP
New	TMI33421	4.5 to 30	2	570k or 50k to 1.2M	0.8	450	0.12	0.08	CM	PFM/PWM Ext COMP/ Adj SS/ Adj fsw	SOP8	MP

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _c (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
	TMI33431	4.5 to 30	2.5	570k	0.8	450	0.12	0.08	CM	PFM/PWM External COMP/ Adj SS	SOP8	MP
	TMI3343C	4.5 to 30	3	400k	0.6	350	0.08	0.04	COT	PFM/PWM	TSOT23-6	ES
Hot	TMI3343	4.5 to 30	3	340k	0.8	380	0.12	0.08	CM	PFM/PWM Ext. COMP./ Adj SS.	ESOP8	MP
	TMI3343B	4.5 to 30	3	50k to 1.5M	0.8	380	0.12	0.08	CM	PFM/PWM Ext. COMP./ Adj fsw.	ESOP8	MP
Hot	TMI3344	4.5 to 30	3	340k	0.925	380	0.12	0.08	CM	PFM/PWM Ext. COMP./ Adj SS.	ESOP8	MP
	TMI3343D	4.5 to 30	3	50k to 1.5M	0.8	380	0.12	0.08	CM	PFM/PWM Ext. COMP. / Adj fsw.	DFN3x3-10	MP
Hot	TMI33431E	4.5 to 30	3	570k	0.8	380	0.12	0.08	CM	PFM/PWM Ext. COMP./ Adj SS.	ESOP8	MP
	TMI3331	8.0 to 30	3	130k to 500k	0.8	1000	0.08	0.06	CM	FPWM Ext. COMP./ Adj SS.	ESOP8	MP
	TMI3331A	8.0 to 30	3	130k to 500k	0.8	1000	0.08	0.06	CM	PFM/PWM Ext. COMP./ Adj SS.	ESOP8	MP
Hot	TMI3351	4.0 to 30	6	100k to 1000k	0.8	1000	0.01	0.008	CM	FCCM/PFM/PWM / Adj SS.	QFN5x5-28	MP
	TMI3352A	4.0 to 33	6	150k to 500k	0.6	1000	0.01	0.008	CM	PFM/CC Mode	QFN5x5-32	MP
Hot	TMI3492	4.3 to 36	2	75k to 600k	1.22	800	0.07	0.04	CM	PFM/PWM Sync. Buck	SOP8	MP
Hot	TMI3493	4.3 to 36	3	75k to 600k	1.22	800	0.07	0.04	CM	PFM/PWM Sync. Buck	SOP8	MP
	TMI3459	5 to 38	0.6	2.0M	0.8	40	0.5	0.2	COT	High Frequency/ PFM/PWM	SOT23-6	MP
	TMI34595	5.0 to 38	0.6	150k	Fixed 5V	40	0.5	0.2	COT	High Frequency/ PFM/PWM	SOT23-6	ES
Hot	TMI3494	5.0 to 40	4	200k	0.92	1000	0.04	NA	CM	Non-Sync.Buck Adj I _L limit	ESOP8	MP
New Hot	TMI36010	6 to 60	1	600k	0.8	300	0.3	NA	CM	Non-Sync.Buck	SOT23-6	MP
	TMI36010S	6 to 60	1	600k	0.75	300	0.3	NA	CM	Non-Sync.Buck	ESOP8	ES
New	TMI36020	6 to 60	2.5	250k to 2.3M	0.8	380	0.095	NA	CM	Non-Sync.Buck./ Adj SS.	ESOP8	MP
New	TMI36021	6 to 60	2	250k to 2.3M	0.8	380	0.095	NA	CM	Non-Sync.Buck./PG	ESOP8	MP
New Hot	TMI36030	6 to 60	3	250k to 2.3M	0.8	300	0.095	NA	CM	Non-Sync.Buck./ Adj SS.	ESOP8	MP
	TMI36030R	6 to 60	3	250k to 2.3M	0.75	300	0.095	NA	CM	Non-Sync.Buck./ Adj SS.	ESOP8	ES
New	TMI36031	6 to 60	3	250k to 2.3M	0.8	300	0.095	NA	CM	Non-Sync.Buck./PG	ESOP8	MP
	TMI36031R	6 to 60	3	250k to 2.3M	0.75	300	0.095	NA	CM	Non-Sync.Buck./PG	ESOP8	ES
	TMI39610	6.0 to 100	1	Max 1000k	1.2	10.5	0.07	NA	COT	PFM/PWM Ext. Adj fsw.	ESOP8	ES

Boost 转换器

	Part Number	V _{IN} Range(V)	V _{OUT_Max} (V)	I _{SW_Limit} (A)	Switching Frequency(Hz)	V _{F8} (V)	I _n (μA)	HSFET R _{ds(on)} (Ω)	LSFET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
Hot	TMI5120	0.85 to 4.5	4.5	0.85	300k	Fixed VOUT	20	0.65	0.45	CM	Sync.Boost/Fixed 2.2V,2.5V,2.8V,3.0V,3.3V Output Voltage	SOT23	MP
	STI3508	2.7 to 7.0	30	3	1M	0.6	450	NA	0.08	CM	Non-sync.Boost/ PFM/ PWM	SOT23-6	MP
	STI3508C	2.5 to 5.5	30	2.5	1.2M	0.6	450	NA	0.1	CM	Non-sync.Boost/ PFM/ PWM	SOT23-6	MP
	STI3508CB	2.5 to 5.5	30	2.5	1.2M	1.2	450	NA	0.1	CM	Non-sync.Boost/ PFM/ PWM	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/ PWM	SOT23-6	MP
	TMI5122D8	2.8 to 4.5	5.5	1.9	2.0M	Fixed 5.0V Output or Adj.from 1.0V	60	0.15	0.15	CM	Sync Boost/ True shutdown	DFN2x2-8	MP

Buck-Boost 转换器

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{OUT} (V)	R _{ds(on)} (mΩ) for Buck Leg/Boost Leg	Soft Start(ms)	Control Mode	Operation Mode	Functions	Package	Status
	TMI5330	2.7 to 26	4.0	125~1000k	2.2 to 22	17,22(Buck Leg) 17,22(Boost Leg)	15	CM	FCCM/PFM	Buck-Boost Synchronous Converter/ High Frequency	QFN4x4-25	ES

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 _{F8} (V)	I _n (mA)	HS/LS R _{ds(on)} (mΩ)	CS Limit	Operation Mode	Functions	Package	Status
Hot	TMI2242D	8.0 to 30	2.4	130k to 500k	0.8	10	80/60	64	FPWM	N+NMOS	ESOP8	MP
	TMI2243	4.5 to 30	2.4	120k	Fixed 5V Output	1	75/40	NA	PFM/PWM	P+NMOS/ Fixed 5V Output	SOP8	MP
	TMI2243D	4.5 to 30	2.4	120k	Fixed 5V Output	1	75/40	NA	PFM/PWM	P+NMOS// Fixed 5V Output/ 2.7V fixed D+/D-	SOP8	MP
	TMI2242E	8.0 to 30	2.4	130k to 500k	0.8	2	80/60	64	PFM/PWM	N+NMOS	ESOP8	MP
Hot	TMI2282L	4.5 to 30	2.4	120k to 440k	1.22	10	75/40	NA	FPWM	P+NMOS	SOP8	MP
	TMI2282	4.5 to 30	3.0	120k to 380k	1.22	10	60/35	NA	FPWM	P+NMOS	SOP8	MP
Hot	TMI2283QE	4.5 to 30	3.0	120k to 380k	1.22	1	45/25	NA	PFM/PWM	P+NMOS 24W Constant Power	SOP8	MP
	TMI2283QED	4.5 to 30	3.0	75k to 800k	1.22	1	45/25	NA	PFM/PWM	P+NMOS 24W Constant Power	SOP8	MP
Hot	TMI2286D	4.5 to 30	3.0	120k	1.22	1	25/25	NA	PFM/PWM	P+NMOS/EN Control/ Externa PMOS Dirver	SOP8	MP
	TMI2286	4.5 to 30	3.4	120k to 450k	1.22	1	25/25	NA	PFM/PWM	P+NMOS EN Control	SOP8	MP
	TMI2245	8.0 to 30	4.8	130k to 500k	0.8	1	40/ External	64	PFM/PWM	N+NMOS/ External LS MOS Driver	ESOP8	MP
Hot	TMI2284Q	4.5 to 40	3.0	120k to 380k	1.22	1	45/25	NA	PFM/PWM	P+NMOS/ High Voltage	SOP8	MP
	TMI2293Q	4.0 to 30	3.0	130k	1.208	1	45/25	61.2	PFM/PWM	/	SOP8	MP
	TMI2294	4.0 to 40	3.0	130k	1.208	1	25/25	61.2	PFM/PWM	/	SOP8	ES

DC/DC 开关控制器
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	4.0 to 36	>10	100k~1000k	0.8 to 36	0.8/DAC	Adj.	CM	FCCM/ PFM/ PWM	I ² C Control/DAC/ High Efficiency	QFN3x3-20	MP
New	TMI3451	4.0 to 36	>10	100k~1000k	0.8 to 36	0.8/DAC	Adj.	CM	FCCM/ PFM/ PWM	High Efficiency	QFN3x3-20	MP
	TMI3452	3.5 to 36	>10	150k~500k	0.8 to 36	0.6	3.5	CM	FCCM/ PFM/ PWM	High Efficiency/EMI optimize	QFN3x3-16	ES
New	TMI3455	4.0 to 36	>10	100k~1000k	0.8 to 36	0.6	Adj.	CM	FCCM/ PFM/ PWM	I ² C Control/DAC/ High Efficiency/load-switch control	QFN3x3-20	MP

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
Hot	TMI5700	3.9 to 34	>8	100k~1000k	0.59 to 30	0.59/DAC	Adj.	CM	FCCM/ PFM/ PWM	I ² C Control/DAC/ High Efficiency	QFN4x4-28	MP
	TMI5700A	3.9 to 36	>8	100k~1000k	0.59 to 30	0.59/DAC	Adj.	CM	FCCM/ PFM/ PWM	I ² C Control/DAC/ High Efficiency	QFN4x4-28	ES
New	TMI5810	2.8 to 32	>5	200k~600k	2.0 to 32	1	8ms	CM	PFM/PWM	Bi-directional Charger	QFN4x4-32	MP

线性稳压器
低压差线性稳压器

	Part Number	V _{in} Range(V)	I _{OUT} (A)	VOUT or VFB(V)	Accuracy	I _s (μA)	PSRR@ 1kHz (dB)	Noise (μV)	V _{Drop} (mV)	Functions	Package	Status
Hot	TMI6030	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	±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	±2%	50	70	200	320mV@300mA	High PSRR	DFN4L 1x1	MP
Hot New	TMI6038	1.8 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3	±2%	1.5	70	50	520mV@300mA	High PSRR/Low Iq/ Low Noise	SOT23-5	MP
Hot New	TMI6038D	1.8 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3	±2%	1.5	70	50	520mV@300mA	High PSRR/Low Iq/ Low Noise	DFN1x1-4L	MP
	TMI6038C	1.8 to 5.5	0.3	1.2/1.5/1.8/2.5/2.8/3.0/3.3	±2%	1.5	70	50	520mV@300mA	High PSRR/Low Iq/ Low Noise	SOT23-3	MP
	TMI6036D	1.4 to 5.5	0.3	0.9/1.0/1.2/1.3/1.5/1.8/2.5/ 2.8/3.0/3.3	±1.5%	50	85	50	170mV@300mA	High PSRR Low Noise	DFN4L 1x1	MP
	TMI6036	1.4 to 5.5	0.3	0.9/1.0/1.2/1.3/1.5/1.8/2.5/ 2.8/3.0/3.3	±1.5%	50	85	50	170mV@300mA	High PSRR Low Noise	SOT23-5	MP
	TMI6036A	1.4 to 5.5	0.5	0.9/1.0/1.2/1.3/1.5/1.8/2.5/ 2.8/3.0/3.3	±1.5%	50	85	50	170mV@300mA	High PSRR Low Noise	SOT23-5	MP
	TMI6056	1.4 to 5.5	0.6	0.8/1.2/1.5/1.8/2.5/ 2.8/3.0/3.3/Adj. from 0.8V-5V	±2%	70	60	40	200mV@600mA	High PSRR Low Noise	SOT23-5	ES
	TMI6056D	1.4 to 5.5	0.6	0.8/1.2/1.5/1.8/2.5/2.8/ 3.0/3.3/Adj. from 0.55V-5V	±2%	70	60	40	200mV@600mA	High PSRR Low Noise	DFN2x2-6	ES

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	V _{OUT} or V _{FB} (V)	Accuracy	I _s (μA)	PSRR@1kHz (dB)	Noise (μV)	V _{DroP} (mV)	Functions	Package	Status
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 0.8V	±2%	50	60	200	600mV@600mA	Fast Response	SOT23-5	MP
New	IM7002X	3.2 to 5.5	0.15	1.8/2.8/3.0/3.3	±2%	0.3	35	200	400mV@150mA	Ultra-low Iq	SOT23-5 SOT23-6 STSLP-4	MP
	TMI6011	1.1 to 6.5	1.2	0.8 to 5.5	±1%	3000	52	10	75mV@1.2A	Low Iq Low Noise	DFN3x3-8	MP
	TMI6013	1.1 to 6.5	3	0.5 to 5.5	±1%	4000	60	10	180mV@3A	Low Noise Low Dropout High PSRR	QFN3.5x3.5-20	MP
Hot	TMI6201A-XX	3.0 to 18	0.15	5.0V/3.3V/3.0V/2.8V/2.5V	±2%	3	35	100	660mV@150mA	High Voltage Low Iq	SOT23-3	MP
	TMI6411-XXTA	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	SOT89-3	MP
Hot New	TMI6411-XXTB	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	SOT89-5	MP
	TMI6411-XXTD	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	SOT23-3	MP
	TMI6411-XXTE	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	TO92	MP
	TMI6411-XXTF	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	SOT23-5	MP
New	TMI6411-XXDA	3.5 to 36	0.2	1.8V/2.5V/2.8V/3.0V/3.3V/3.4V/5.0V	±1%	2.5	55	90	V _{OUT} =5V/400mV@100mA	Ultra Low Supply Current	DFN3x3-8	MP

DDR VTT 终端稳压器

	Part Number	V _{IN} Range(V)	Output Current (A)	REFOUT current(mA)	VLDOIN(V)	VREFIN	I _s (μA)	VOSNS(V)	Functions	Package	Status
New	TMI62033	2.5 to 3.3	3	25	1.1 to 3.5	0.5 to 1.8	1	0.6 to 1.25	PGOOD/VOSNS/UVLO/SS/OCL	DFN3x3-10	MP

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 _s of each Channel (μA)	Functions	Package	Status
Hot	TMI7003B	2.7 to 6.0	3	1/1/1	2.3M	0.6	40	3 Channels Low Voltage Buck/ High Frequency	QFN3x3-20	MP
Hot	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
	TMI71301	2.5 to 5.5	3	0.2/ 0.2/0.2	0.6~2M	0.4	1	3 Channels Low Voltage BuckBoost	QFN3x3-16	ES
New	TMI7205B-Q1	4.5 to 30	4	1/1/1/0.3	1.5M/2.3M	0.8/0.6/0.6/1.2	350/50/50/1.5	1 Channel High Voltage Buck 2 Channels Low Voltage Buck 1 Channel Low Voltage LDO	QFN4x4-24	MP
	TMI7206	4.0 to 28	4	1.5/1.5/1/0.3	2.1M/2.1M/2.1M	0.8	15000	1 Channel High Voltage Buck 2 Channels Low Voltage Buck 1 Channel Low Voltage LDO	QFN3x3-16	ES
	TMI7431E	5.5 to 38	3	1/0.45/0.1	600k/550k	Fixed : 3.3V Adj. : 0.8V Fixed : 2.55V	400	1 Channel High Voltage Buck 1 Channels Low Voltage Boost 1 Channel Low Voltage Charger	ESOP8	ES
	TMI7431Q	5.5 to 38	3	1/0.45/0.1	600k/550k	Fixed : 3.3V Adj. : 0.8V Fixed : 2.55V	400	1 Channel High Voltage Buck 1 Channels Low Voltage Boost 1 Channel Low Voltage Charger	QFN3X4-24	ES

	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
	STI8036	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap.	ESOP8	MP
Hot	STI8036B	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap./ High Accuracy	ESOP8	MP
Hot	TMI8037	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap./ High Accuracy	ESOP8	MP
	TMI8038	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap./ Small Package	MSOP8	MP
	TMI8135	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/ For Electrolytic Cap.	ESOP8	MP
	TMI8100	9.0 to 14	0.5	1M	14/ 19	0.12	40	Boost + Linear Regulator/For Electrolytic Cap. /Small Package	CPC8	MP

Type-C/ 拓展坞 PMIC

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{OUT} (V)	R _{ds(on)} (mΩ) for Buck Leg/ Boost Leg	Soft Start(ms)	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)	1.35	CM	FCCM/PFM/ PWM	Buck-Boost Synchronous Converter/ High Frequency/Power Path Control	QFN4x4-28	MP
	IM2603	3.5 to 26	5	475k	1.25~5	40(Buck HS)	2	CM	PFM/PWM	Buck Converter Support Synchronous and Asynchronous/Power Path Control	QFN3x3-16	MP
	IM2600	3.5 to 26	5	475k	1.25~5	40(Buck HS)	2	CM	PFM/PWM	Buck Converter Support Synchronous and Asynchronous / Bypass Mode/ Power Path Control	QFN3x3-20	MP
Hot	TMI2605S	3.7 to 23	4	300k~500k	1.25~5	35,20(Buck Leg) 15,20(Boost Leg)	3	CM	FCCM/PFM/ PWM	Buck-Boost Synchronous Converter /High Frequency/Power Path Control	QFN4x4-28	MP

LED 驱动器 LED 背光驱动

	Part Number	V _{IN} Range(V)	V _{OUT} OVP(V)	I _{SW_Limit} (A)	Switching Frequency(Hz)	V _{FB} (V)	I _q (μA)	LS_FET R _{ds(on)} (Ω)	Control Mode	Functions	Package	Status
	STI9287	2.5 to 7.0	30	1.7	1.0M	0.2	20	0.2	CM	Non-sync.Boost	SOT23-6	MP
	STI9287B	2.7 to 7.0	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

LED 照明驱动

	Part Number	V _{IN} Range(V)	I _{OUT} (A)	Switching Frequency(Hz)	V _{FB} (mV)	I _q (μA)	HS_FET R _{ds(on)} (Ω)	LS_FET 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/PWM	SOT23-5	MP
Hot	TMI5102	2.5 to 5.5	2	1.0M	100	50	0.15	0.07	CM	PFM/PWM	SOT23-5	MP
	TMI5302	4.5 to 30	2	1.0M	100	350	0.14	0.07	CM	PFM/PWM/ 1% PWM Dimming	SOT23-6	MP

保护、开关和复位
负载开关

	Part Number	V _{IN} Range(V)	Current Limit(A)	R _{ds(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	Y	Y	H	SOT23-5	MP
	TMI6283H	2.4 to 18	2	100	Y	N	Y	H	QFN3x3-16	MP

电源开关

	Part Number	V _{IN} Range (V)	Current Limit (A)	R _{ds(on)} (mΩ)	Input OVP (V)	Output Reverse Voltage Proection	Output Discharge	Soft Start	Package	Status
Hot	TMI6240	2.7 to 18	4.0	50	19.1	N	Y	Ext. Css Adj.	SOT23-5	MP
Hot New	TMI6240I	2.7 to 17	6.0	75	18.5	N	Y	Ext. Css Adj.	PDFN3x2-6	MP
Hot New	TMI6250I	2.7 to 17	6.0	50	18.5	N	Y	Ext. Css Adj.	PDFN3x2-6	MP
	TMI6240S	2.7 to 18	6.0	50	19.1	N	Y	Ext. Css Adj.	ESOP8	MP
	TMI6220	2.7 to 18	3.5	80	19.1	N	Y	Ext. Css Adj.	SOT23-5	MP
Hot	TMI6241	2.7 to 6.0	4.0	60	6.4	N	Y	Ext. Css Adj.	SOT23-5	MP
	TMI6241A	2.7 to 18	4.0	60	19.1 OVP 5.7V Clamp	N	Y	Ext. Css Adj.	SOT23-5	MP
	TMI6241D	2.7 to 18	4.0	60	19.1 OVP 5.7V Clamp	N	Y	Ext. Css Adj.	DFN3x3-10	MP
Hot	TMI6401	2.7 to 38	2.5	160	6 OVP 5.7V Clamp	N	Y	Fixed	SOT23-6	MP
	TMI6402	2.7 to 38	1.7	160	6.6 OVP 5.7V Clamp	N	Y	Fixed	DFN2x2	MP
Hot	TMI6402T	2.7 to 38	1.7	160	6.6 OVP 5.7V Clamp	N	Y	Fixed	DFN1.6x1.6	MP

复位芯片

	Part Number	V _{IN} Range (V)	I _n (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
	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

断电保护 Dying Gasp

	Part Number	V _{IN} Range (V)	I _{Release} (A)	V _{Storage_Max} (V)	I _{Charge} (A)	V _{FBI} (V)	V _{FBI2} (V)	Function	Package	Status
	TMI5111	5.0 to 18	2	28	0.3	1	1	Charge Pump + Linear Regulator	SOP8	MP

PWM Controllers and SR Controllers
AC/DC

	Part Number	V _{IN} Range(V)	Switching Frequency(Hz)	MOSFET BVDSS R _{ds(on)} (V)	BJT V _{CBO} (V)	HV Start-up	Protection	Soft Start	Feedback	Operation Mode	Package	Status
Hot	TMI9713	9.5 to 91	80k/ 130K(Peak load)	-	-	-	OCP/OLP/OVP/OTP/ BO/SCP/VDD_OVP/ VDD_UVLO	Y	SSR ≤ 100W	CCM/DCM/QR	SOT23-6	MP
	TMI9713E	9.5 to 91	80k/ 130K(Peak load)	-	-	-	OCP/OLP/OVP/OTP/ BO/SCP/VDD_OVP/ VDD_UVLO	Y	SSR ≤ 100W	CCM/DCM/QR	SOT23-6	MP
	TMI9713A/C	9.5 to 91	80k/ 130K	-	-	-	OCP/OLP/OVP/OTP/ BO/SCP/VDD_OVP/ VDD_UVLO	Y	SSR ≤ 65W	CCM/DCM/QR	SOT23-6	MP
	TMI9723	5.1 to 22	90k	-	800V	-	OCP/OTP/BO/SCP/ VDD_OVP/VDD_UVLO	N	PSR ≤ 10W	DCM	SOP7	MP
Hot New	TMI97051	8.2 to 55	65k	-	-	-	OCP/OTP/BO/SCP/ VDD_OVP/VDD_UVLO	Y	SSR ≤ 65W	CCM/DCM	SOT23-6	MP
	TMI9703E	8.2 to 55	65k	650V/0.5Ω	-	-	OCP/OTP/BO/SCP/ VDD_OVP/VDD_UVLO	Y	SSR ≤ 35W	CCM/DCM	ESOP6	MP
	TMI9743A	VDDH: 15-100 VDDL:10-38	130/170/200/250k	-	-	YES	OCP/OLP/OVP/OTP/ BO/SCP/VDD_OVP/ VDD_UVLO	Y	SSR ≤ 100W	QR	SSOP10	ES

同步整流

	Part Number	V _{IN} Range(V)	Switching Frequency(Hz)	MOSFET BVDSS R _{ds(on)} (V)	Functions	Operation Mode	Package	Status
	TMI9640A	3.0 to 6.0	150k	40V/16mΩ	High side	DCM/QR	SOP8	ES
	TMI9608	4.0 to 100	200k	/	High/low side	QR/DCM/CCM	SOT23-6	ES

PoE 供电
PoE-PD

	Part Number	PoE Standard	PD max power level (W)	Operating temperature (°C)	Absolute Maximum V _{in} (V)	DC/DC control	Switching max Frequency(KHz)	MOSFET BVDSS(V)/R _{ds(on)}	PoE inrush limit (mA)	PoE current limit (mA)	Functions	Package	Status
Hot	TMI7301	IEEE 802.3af	15	-40~105	100	PD only	/	PD: Internal/100V/0.6Ω	150	450	Auto-MPS,PG indicator	SOP8	MP
	TMI7302A	IEEE 802.3af	15	-40~105	100	PD only	/	PD: Internal/100V/0.6Ω	150	450	Auto-MPS,PG indicator	SOP8	MP
	TMI7302D	IEEE 802.3af	15	-40~105	100	PD only	/	PD: Internal/100V/0.6Ω	150	450	Auto-MPS,PG indicator	SOP8	MP
	TMI7303A	IEEE 802.3af/at	30	-40~105	100	PD only	/	PD: Internal/100V/0.48Ω	180	920	Auto-MPS,PG indicator,T2P indicator,Aux power	DFN3x3-10	MP
	TMI7303B	IEEE 802.3af/at	30	-40~105	100	PD only	/	PD: Internal/100V/0.48Ω	180	920	Auto-MPS,PG indicator,T2P indicator,Aux power	DFN3x3-10	MP
Hot	TMI7303C	IEEE 802.3af/at	30	-40~105	100	PD only	/	PD: Internal/100V/0.48Ω	180	920	PG indicator, T2P indicator ,Aux power	ESOP8	MP
	TMI7303D	IEEE 802.3af/at	30	-40~105	100	PD only	/	PD: Internal/100V/0.48Ω	180	920	Auto-MPS,PG indicator,T2P indicator	DFN3x3-10	MP
	TMI7325B	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	550	PD: Internal/100V/0.6Ω DCDC: Internal/160V/0.8Ω	150	450	PWM,Auto-MPS,Flyback-SSR/ Isolation Boost/No-Isolation	DFN4x6-20	MP
	TMI7326A	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	200	PD: Internal/100V/0.48Ω DCDC: Internal/160V/0.8Ω	120	600	PFM,PG indicator, T2P indicator ,Aux power,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP
	TMI7326B	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	200	PD: Internal/100V/0.48Ω DCDC: Internal/160V/0.8Ω	120	600	PFM,Auto-MPS,PG indicator,T2P indicator,Aux power,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP
	TMI7327A	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	300	PD: Internal/100V/0.48Ω DCDC: Internal/160V/0.8Ω	120	600	PFM,PG indicator, T2P indicator ,Aux power,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP
	TMI7327B	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	300	PD: Internal/100V/0.48Ω DCDC: Internal/160V/0.8Ω	120	600	PFM,Auto-MPS,PG indicator,T2P indicator,Aux power,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP
	TMI7320	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	200	PD: Internal/100V/0.6Ω DCDC: Internal/160V/0.8Ω	150	450	PFM,Auto-MPS,PG indicator,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP
Hot	TMI7321	IEEE 802.3af	15	-40~105	100	PD and DCDC and MOS	300	PD: Internal/100V/0.6Ω DCDC: Internal/160V/0.8Ω	150	450	PFM,Auto-MPS,PG indicator,Flyback-PSR/ Isolation Buck/No-Isolation	QFN4x5-28	MP

PoE-PSE

	Part Number	PoE Standard	Absolute Maximum V_{in} (V)	Operating temperature (°C)	PSE Ports	MOSFET	MPS Method	Rsense	Work Mode	Interface	EEPROM interface	LED Control	Package	Status
Hot	TMI7608	IEEE 802.3af/at	90	-40~85	8	Internal	DC Disconnect	External/0.24Ω	Auto/Semi-Auto/Manual	I ² C	Y	Y	QFN7x7-48	MP
Hot	TMI7604R	IEEE 802.3af/at	90	-40~85	4	Internal	DC Disconnect	Internal	Auto/Semi-Auto/Manual	I ² C	Y	Y	QFN7x7-48	MP
Hot	TMI7608R	IEEE 802.3af/at	90	-40~85	8	Internal	DC Disconnect	Internal	Auto/Semi-Auto/Manual	I ² C	Y	Y	QFN7x7-48	MP
Hot	TMI7608S	IEEE 802.3af/at	90	-40~85	8	Internal	DC Disconnect	Internal	Auto/Semi-Auto/Manual	I ² C	Y	Y	QFN8x8-56	MP

PoE-DC/DC

	Part Number	Absolute Maximum V_{in} (V)	Operating temperature (°C)	SwitchingFrequency(KHz)	MOSFET	MOSFET BVDSS(V)/ $R_{ds(on)}$	DC/DC Topology	Operation Mode	Power level (W)	Package	Status
Hot	TMI97151	100	-40~105	550	Internal	160V/0.8Ω	Flyback-SSR/Forward/Boost	PWM	13	ESOP8	MP
	TMI97153A	100	-40~105	200	Internal	160V/0.8Ω	Flyback-PSR/Isolation Buck/No-Isolation	PFM	13	DFN4x4-16	MP
Hot	TMI97153B	100	-40~105	200	Internal	160V/0.8Ω	Flyback-PSR/Isolation	PFM	13	ESOP8	MP
	TMI97153C	100	-40~105	200	Internal	160V/0.8Ω	Buck/No-Isolation	PFM	13	ESOP8	MP

电源模块
降压电源模块

	Part Number	V_{in} Range(V)	I_{out} (A)	Switching Frequency(Hz)	V_{out} (V)	V_{FB} (V)	HS_FET $R_{ds(on)}$ (Ω)	LS_FET $R_{ds(on)}$ (Ω)	Inductor(uH)	Control Mode	Operation Mode	Functions	Package	Status
Hot	IM6001	2.7 to5.5	1	3M	1.0 to 5.0	0.6/ Programmed	0.12	0.06	0.47	COT	FCCM/PFM/ PWM	High Frequency / Ultra-low Iq	QFN3x3-13	MP
	TMIP3120	2.5 to 6.0	2	3M	0.6 to 5.0	0.6	0.05	0.04	0.47	COT	FCCM/PFM/ PWM	High Frequency / Ultra-low Iq/ PG	uSiL2.8x3-8	ES
	TMIP3130	2.5 to 6.0	3	3M	0.6 to 5.0	0.6	0.05	0.04	0.47	COT	FCCM/PFM/ PWM	High Frequency / Ultra-low Iq/ PG	uSiL2.8x3-8	ES

音频产品

音频功放

	Part Number	Channel	Power@10% THD Po (W)	VDD(V)	impedance_ Min. RL (Ω)	Gain Gv(dB)	THD+N (%)	Protection	Fuction	Package	Status
Hot	TMS8010	Mono	3.2	2.5~6.0	3	320/Rin	0.035	短路 / 过温 /UVLO	NCN/ 双模	SOP8/MSOP8	MP
	TMS8010N	Mono	3.2	2.5~6.0	3	320/Rin	0.035	短路 / 过温 /UVLO	Class D	SOP8	MP
Hot	TMS8020xx	Mono	3.0	2.5~5.5	3	320/Rin	0.035	短路 / 过温 /UVLO	NCN/ 双模	DFN2x2-8/MSOP8	MP
	TMS8003	Mono	3.0	2.5~5.5	3	300/Rin	0.02	短路 / 过温 /UVLO	Class D	COL9	MP
	TMS8007	Mono	3.0	2.5~5.5	3	300/Rin	0.02	短路 / 过温 /UVLO	Class D	DFN2x2-8/ MSOP8/SOP8	MP
Hot	TMS8008	Mono	3.0	2.5~5.5	3	300/Rin	0.02	短路 / 过温 /UVLO	Class D	DFN2x2-8/MSOP8	MP
	TMS8525	Mono	18	5~15.5	3	26	0.012	短路 / 过温 /UVLO	SCPL, SSM	eSOP-16	ES
	TMS8201E	Stereo	3.0	2.5~6.5	3	-80~24	0.02	短路 / 过温 /UVLO	HP, VOL, PL	eSOP-16	ES
Hot	TMS8203E	Stereo	3.0	2.5~5.5	3	-80~24	0.02	短路 / 过温 /UVLO	HP, VOL, PL	SSOP-24	MP
	TMS8609B	Stereo	10	5.0~15.5	4	20~36	0.012	短路 / 过温 /UVLO	SCPL, SSM, PBTl	eTSSOP-28	ES
	TMS8609D	Stereo	10	8.0~15.5	4	26	0.012	短路 / 过温 /UVLO	SSM	eTSSOP-28	MP
	TMS8609E	Stereo	10	8.0~15.5	4	26	0.012	短路 / 过温 /UVLO	SCPL, SSM, PBTl	eTSSOP-28	MP
Hot	TMS8609F	Stereo	10	8.0~15.5	4	20~36	0.012	短路 / 过温 /UVLO	SCPL, SSM, PBTl	eTSSOP-28	MP
	TMS8601	Stereo	10	8.0~15.5	4	32	0.012	短路 / 过温 /UVLO	SSM	eSOP-16	ES

MCU

MCU

Part Number	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

Local Dimming
LED Dimmer IC

Hot

Part Number	Vcc Range(V)	I _{OUT} (mA)	VLEDmax(V)	channel	Dimming option	PWM Control	Totp(°C)	Package	Status
TMI9404	3.0 to 5.5	40mA	40	4	PWM	12bitPWM	120	DFN2x2-10	MP
TMI9405	3.0 to 5.5	80mA	40	4	PWM	12bitPWM	120	DFN2x2-10	MP
TMI9408	3.0 to 5.5	80mA	40	4	PWM/DC	12bitPWM+4bitDC/10bitPWM+6bitDC	120	DFN2x2-10	MP
TMI9410	3.0 to 5.5	142mA	40	8	PWM/DC	12bitPWM+4bitDC/10bitPWM+6bitDC	120	QFN3x3-16	ES
TMI9416	3.0 to 5.5	80mA	40	16	PWM/DC	12bitPWM+4bitDC/10bitPWM+6bitDC	120	QFN24	MP

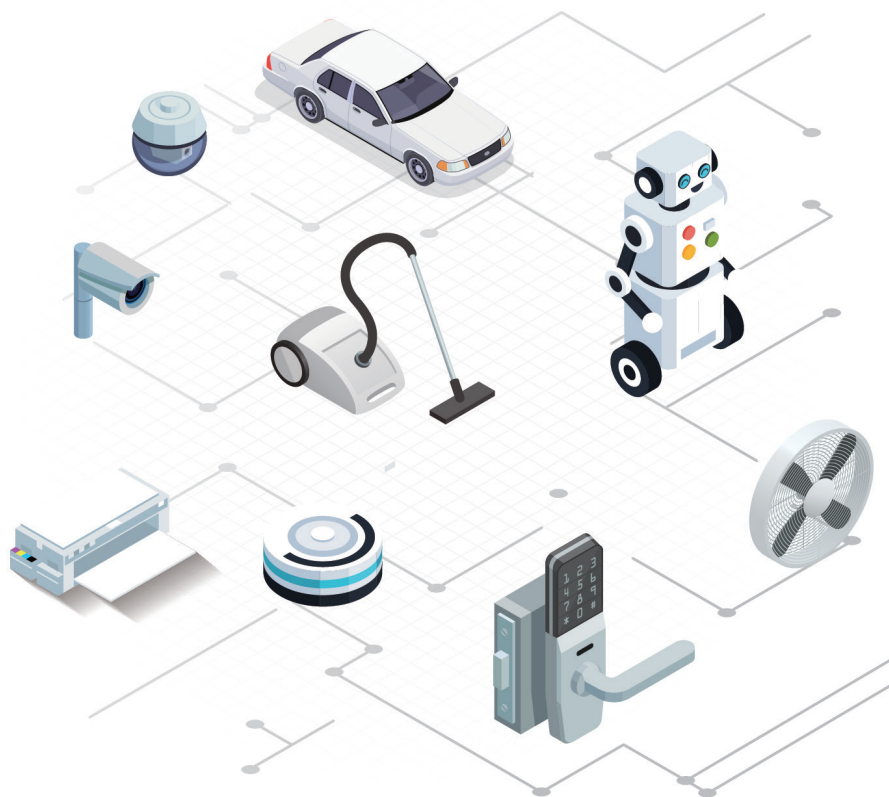
BCON

Part Number	V _{IN} Range(V)	OSC Freq.(MHz)	SPI Freq.(MHz)	EEPROM	Dimmer I/O	Data-width	Functions	Package	Status
TMI8D100	3.3 to 5.0	50M	20M	4k/8k bit	32	15bit	Dimmer Driver/SPI interface/CRC check/feedback	LQFP100L	ES

拓尔马达驱动芯片

Motor Driver Chips

拓尔的马达驱动产品涵盖全集成式有刷全桥驱动、半桥栅极驱动、全桥栅极控制器、三相半桥栅极驱动、全集成式步进驱动、专用型马达驱动、高边驱动、低边驱动等，主要应用于智能家居如扫地机器人、洗地机、智能门锁等，工业应用如机器人、打印机等，汽车车身域产品如车窗、儿童锁等，产品覆盖高中低压、大中小电流范围，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。



直流有刷马达驱动

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	1.6 to 7.2	/	1.35/2.0	0.55	-	TSD	SOT23-6	MP
	TMI8118	1.6 to 7.2	/	1.35/2.0	0.55	-	TSD	SOT23-6	MP
	TMI8118S	1.6 to 7.2	/	1.45/2.0	0.53	-	TSD	SOP8	MP
	TMI8208	2.4 to 7.2	/	1.45/2.0	0.53	-	TSD	SOP8	MP
Hot	TMI8837	1.8 to 11	1.8 to 7.0	1.3/2.0	0.65	-	UVLO, TSD, OCP	DFN2x2-8	MP
	TMI8837S	1.8 to 11	1.8 to 7.0	1.1/1.5	0.65	-	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8230	1.8 to 11	1.8 to 7.0	2.4/3.5	0.285	-	UVLO, TSD, OCP	DFN2x2-8	MP
	TMI8230S	1.8 to 11	1.8 to 7.0	1.8/3.5	0.285	-	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8260SP	3.0 to 18	/	4.0/8.0	0.09	-	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8260DP	3.0 to 18	/	5.5/13.0	0.08	-	UVLO, TSD, OCP	DIP8	MP
New	TMI8270	3.0 to 18	/	6.0/12.0	0.065	-	UVLO, TSD, OCP	PDFN5x6-8	MP
Hot	TMI8261	3.0 to 18	/	5.0/8.0	0.065	-	UVLO, TSD, OCP	SOP8	MP
New	TMI8260FP	3.0 to 20	/	8.0/12.0	0.045	-	UVLO, TSD, OCP	DFN5x6_15	MP
Hot	TMI8340	5.0 to 30	/	4.0/8.0	0.091	-	UVLO, TSD, OCP	SOP8	MP
	TMI8085	4.8 to 36	/	1.5/3.6	0.5	-	UVLO, TSD, OCP	ESOP8	MP
Hot	TMI8876/Q	4.5 to 37	/	2.0/3.5	0.49	Vref/Iprop	UVLO, TSD, OCP	HTSSOP16 QFN3x3-16	MP
Hot	TMI8110	4.5 to 37	/	2.0/3.5	0.49	Vref/Iprop	UVLO, TSD, OCP	ESOP8	MP
Hot	TMI8180A	4.5 to 37	/	2.0/3.8	0.49	Vref/Iprop	UVLO, TSD, OCP	ESOP8	MP
Hot	TMI8180G	4.5 to 37	/	2.0/3.8	0.49	Vref/Iprop	UVLO,TSD,OCP	ESOP8	MP
Hot	TMI8122	4.5 to 37	/	4.0/10.0	0.18	Vref/Iprop	UVLO, TSD, OCP	HTSSOP16 QFN3x3-16	MP
	TMI8123	4.5 to 37	/	3.5/10.0	0.18	Vref/Iprop	UVLO, TSD, OCP	QFN4x4-16	ES
New	TMI8130	6.0 to 40	/	3.5/7.0	0.16	Vref/Isense	UVLO, TSD, OCP	ETSSOP24	MP
Hot	TMI8460SP	5.0 to 40	/	4.0/8.0	0.095	-	UVLO, TSD, OCP	SOP8	MP
Hot	TMI8140	6.8 to 40	/	7.0/13.0	0.05	-	UVLO, TSD, OCP	DFN5x6-15	MP
Hot	TMI8870	6.8 to 45	/	1.8/3.6	0.91	Vref/Isense	UVLO, TSD, OCP	ESOP8	MP

两相有刷栅极驱动

	Part Number	VDD(V)	Input Mode	Adjustable Parameter	Channel	Driver MOS	Con./Peak Cur.(A)	Ton/Toff(ns)	Protection	Package	Status
	TMI8720PD	5.0 to 40	PWM	/	1 Full Bridge	P+N	Sink/Source: 0.20/0.05	600/150	UVLO, TSD, OCP	DFN3x3-10	MP
Hot	TMI8721	5.5 to 38	PWM/PHEN/Independent Half-Bridge	SPI software control: I _{DRIVE} 8 levels, t _{DEAD} 4 levels, A _V 4 levels, t _{off} 4 levels, t _{ON} 4 levels, V _{DS(OCF)} 8 levels	2 Half Bridge	N+N	Sink/Source: 0.44/0.22	500/500	UVLO, CPUV, OCP, GDF, nFAULT, TSD, SCP	QFN5x5-32	MP
	TMI8722	5.5 to 38	PWM/PHEN/Independent Half-Bridge	Hardware control: I _{DRIVE} 6 levels, V _{DS(OCF)} 6 levels	2 Half Bridge	N+N	Sink/Source: 0.44/0.22	500/500	UVLO, CPUV, OCP, GDF, nFAULT, TSD, SCP	QFN5x5-32	ES
Hot New	TMI8723	5.0 to 40	PWM	Hardware control: V _{DS(OCF)} 4 levels	1 Full Bridge	N+N	Sink/Source: 0.5/0.25	280/180	UVLO, TSD, OCP, SCP	QFN3x3-16	MP
New	TMI8723N	5.0 to 40	PWM/PHEN/Independent Half-Bridge	Hardware control: V _{DS(OCF)} 4 levels, t _{DEAD} 4 levels,	2 Half Bridge	N+N	Sink/Source: 0.5/0.25	280/180	UVLO, TSD, nFAULT, OCP, SCP	QFN4x4-24	MP

交流同步电机驱动

	Part Number	VM(V)	Input Mode	Channel	Con./Peak Cur.(A)	R _{ds(on)} (HS+LS) (Ω)	Fuction	Protection	Package	Status
	TMI88225	4.5 to 28	EN/FR	1	1.0/1.6	0.5	50/60Hz sine wave	UVLO, TSD, OCP	ESOP8	MP

高边或低边驱动
低边驱动

	Part Number	VM(V)	Input Mode	Channel	Con./Peak Cur.(A)	R _{ds(on)} (Ω)	Protection	Package	Status
	TMI8921	2.7 to 18	PWM	2	0.5/0.7	1.4	UVLO, TSD, OCP	SOT23-6	MP
Hot	TMI8920	2.7 to 37	PWM	2	0.5/0.7	1.4	UVLO, TSD, OCP	SOT23-6	MP
	TMI8940D	2.7 to 37	PWM	4	0.5/0.7	1.4	UVLO, TSD, OCP	DFN3x3-10	MP
New	TMI8913	2.7 to 37	PWM	1	4/8	0.1	UVLO, TSD, OCP, OVP	DFN3x3-10	MP

步进马达驱动
步进马达驱动

	Part Number	VM(V)	Input Mode	Channel	Con./Peak Cur.(A)	R _{ds(on)} (HS+LS) (Ω)	CC Mode	Protection	Package	Status
Hot	TMI8150B	2.4 to 5.5	SPI(1/128 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	-	UVLO, TSD	QFN3x3-20	MP
	TMI8151	2.4 to 5.5	SPI(1/256 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	-	UVLO, TSD	QFN3x3-20	MP
New	TMI8152	2.4 to 5.5	SPI(1/128 step)	5	0.6	CH1~4: 1.3 CH5: 2.4	-	UVLO, TSD	QFN3x3-20	MP
New	TMI8160	2.4 to 5.5	SPI(1/256 step)	5	0.7	CH1~4: 1.3 CH5: 2.4	-	UVLO, TSD	QFN3x3-20	MP
	TMI8120	2.4 to 7.0	PWM	2	1.4/2.0	0.55	-	TSD	QFN3x3-20	MP
Hot	TMI8548	4.0 to 16	PWM	2	1.0/1.6	0.83	-	UVLO, TSD, OCP	SSOP10	MP

	Part Number	VM(V)	Input Mode	Channel	Con./Peak Cur. (A)	R _{ds(on)} (HS+LS) (Ω)	CC Mode	Protection	Package	Status
	TMI8549	4.0 to 16	PWM (1 line)	2	1.0/1.6	0.83	-	UVLO, TSD, OCP	SSOP10	MP
Hot	TMI8421	6.0 to 35	STEP/DIR (1/16)	2	1.8/2.2	0.56	Vref/Isense	UVLO, TSD, OCP	QFN5x5-28	MP
	TMI8264	8.0 to 37	PH/EN	2	1.6/2.0	0.9	Vref/Isense	UVLO,TSD,OCP	ETSSOP-24	MP
	TMI8423	6.8 to 45	PWM	2	1.2/3.6	0.91	Vref/Isense	UVLO, TSD, OCP	HTSSOP20	MP
Hot	TMI8262/Q	8.0 to 45	PH/EN	2	1.6/2.0	0.9	Vref/Isense	UVLO, TSD, OCP	HTSSOP-28 QFN5x5-28	MP
Hot	TMI8263	8.0 to 45	Independent Half-Bridge	2	2.5/2.8	0.4	Vref/Isense	UVLO, TSD, OCP	HTSSOP-28	MP
Hot	TMI8420/Q	8.0 to 45	STEP/DIR (1/32)	2	2.5/2.8	0.4	Vref/Isense	UVLO, TSD, OCP	HTSSOP-28 QFN5x5-28	MP

直流无刷电机驱动

单相 & 三相直流无刷电机驱动

	Part Number	Function	VM(V)	Magnetic field Switching Threshold(mT)	Control Mode	Commulation	Con./Peak Cur.(A)	Rds(on) (HS+LS) (Ω)	sensor	Protection	Package	Status
New	TMI85120	单相有感电机驱动	3.5 to 16	3	PWM (min speed setting)	Trapezoidal	0.6/1.0A	2.6	Sensored	UVLO, TSD, LRP、RVP	SOIC8	MP
New	TMI85120S	单相有感电机驱动	3.5 to 16	3	PWM (stop setting)	Trapezoidal	0.6/1.0A	2.6	Sensored	UVLO,TSD,LRP、RVP	SOIC8	MP
New	TMI85121	单相有感电机驱动	3.5 to 16	1.5	PWM (min speed setting)	Trapezoidal	0.6/1.0A	2.6	Sensored	UVLO,TSD,LRP、RVP	SOIC8	MP
New	TMI85121S	单相有感电机驱动	3.5 to 16	1.5	PWM (stop setting)	Trapezoidal	0.6/1.0A	2.6	Sensored	UVLO,TSD,LRP、RVP	SOIC8	MP
	TMI85303	3 相无感电机驱动	4.0 to 40	/	I ² C/PWM/Analog	Sinusoidal/Trapezoidal	1.5/3.0A	0.51	Sensorless	UVLO,TSD,OCP, OVP	QFN5x5-28	ES

隔离栅极驱动

	Part Number	VCC-VEE(V)	Key Feature	IOH/IOL (A)	TPLH(ns) Typ.	CMTI (kV/us) Min.	Isolation Voltage (Vrms)	Protection	Package	Status
New	TMID23513	14 to 33	Opto-compatible	4.5/5.3	80	±150	5000	UVLO	SOW6L	MP

拓尔电池管理芯片

Battery Management Chips

拓尔的锂电保护芯片适用于单节至 14 节锂电池组中，主要应用产品有：手机、平板、穿戴设备、电动两轮车，储能，UPS、扫地机器人、清洁工具、电动工具等；实现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、过流保护、过温保护等，让您更轻松的设计出更高效、更持久、更可靠的电池供电应用。



锂电池充电管理
线性充电管理

	Part Number	V _{IN} (V)	V _{BAT} (V)	I _{CHG} (A)	I _{BAT_STB} (μA)	V _{OUT_Max} (V)	Functions	Package	Status
Hot	TMI4054/H	2.0 to 8.0	4.2/4.35 ± 1%	Adj. up to 0.8	2.500	/	ICHG Adj.	SOT23-5	MP
	TMI4056/H	2.0 to 8.0	4.2/4.35 ± 1%	Adj. up to 1.0	2.500	/	ICHG Adj./NTC Thermal Sense	SOP8	MP
	TMI4056D/DH	2.0 to 8.0	4.2/4.35 ± 1%	Adj. up to 1.0	2.500	/	ICHG Adj./NTC Thermal Sense	DFN3x3-6	MP
Hot	TMI4056E/EH	2.0 to 8.0	4.2/4.35 ± 1%	Adj. up to 1.0	2.500	/	ICHG Adj./NTC Thermal Sense	ESOP8	MP
	TMI4156	2.5 to 20	4.2 ± 1%	Adj. up to 1.0	2.500	/	High VIN with System Power 5.7V Clamp Output	DFN3x3-8	MP

锂电池保护 IC
单节锂电池正极保护 IC

	Part Number	V _{OPP} (V)	V _{OVR} (V)	V _{UVP} (V)	V _{UVR} (V)	V _{COCP} (mV)	V _{DOCP1} (mV)	V _{SHORT} (mV)	Package	Status
New	TMI4010A	4.545	4.395	2.500	2.600	15	-15	40	CSP-8	MP

单节锂电池高精度负极保护 IC(外接检流电阻)

	Part Number	V _{OPP} (V)	V _{OVR} (V)	V _{UVP} (V)	V _{UVR} (V)	V _{COCP} (mV)	V _{DOCP1} (mV)	V _{DOCP2} (mV)	V _{SHORT} (mV)	Package	Status
New	TMI4011A	4.480	4.280	2.500	2.900	-18	12	17	42	DFN-6L	MP
New	TMI4011B	4.510	4.310	2.300	2.500	-21	15	20	60	DFN-6L	MP
New	TMI4011C	4.530	4.330	2.500	2.900	-18	12	17	42	DFN-6L	MP
New	TMI4011D	4.560	4.360	2.300	2.500	-21	15	20	60	DFN-6L	MP
New	TMI4011E	4.550	4.350	2.500	2.900	-18	12	17	42	DFN-6L	MP
New	TMI4011F	4.580	4.380	2.300	2.500	-21	15	20	60	DFN-6L	MP
New	TMI4011G	4.570	4.370	2.500	2.900	-18	12	17	42	DFN-6L	MP
New	TMI4011H	4.600	4.400	2.300	2.500	-21	15	20	60	DFN-6L	MP
New	TMI4011I	4.425	4.225	2.500	2.900	-18	12	17	42	DFN-6L	MP
New	TMI4011J	4.250	4.050	2.500	2.900	-21	15	20	60	DFN-6L	MP

单节锂电池通用负极保护 IC

	Part Number	V _{OV} (V)	V _{OVR} (V)	V _{UV} (V)	V _{UVR} (V)	V _{COG} (mV)	V _{DOCP1} (mV)	V _{SHORT} (mV)	Package	Status
New	TMI4012DA	4.425	4.225	2.800	2.800	-50	50	150	DFN -6 (1.6x1.9)	MP
New	TMI4012DB	4.425	4.225	2.800	3.000	-50	50	150	DFN -6 (1.6x1.9)	MP
New	TMI4012DC	4.250	4.050	2.500	2.700	-50	50	150	DFN -6 (1.6x1.9)	MP
New	TMI4012DD	4.250	4.050	2.500	2.900	-100	100	200	DFN -6 (1.6x1.9)	MP
New	TMI4012DE	4.250	4.050	2.600	2.800	-150	150	300	DFN -6 (1.6x1.9)	MP
New	TMI4012DF	4.280	4.080	2.400	2.800	-100	100	200	DFN -6 (1.6x1.9)	MP
New	TMI4012DH	4.300	4.100	2.800	3.000	-150.000	150.000	350.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DI	4.425	4.225	2.800	3.000	-100.000	100.000	250.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DJ	4.425	4.225	2.800	3.000	-150.000	150.000	350.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DK	4.475	4.275	2.500	2.900	-50.000	50.000	150.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DL	4.475	4.275	2.800	3.000	-100.000	100.000	250.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DM	4.475	4.275	2.500	2.700	-150.000	150.000	350.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DN	4.495	4.295	2.500	2.900	-50.000	50.000	150.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DP	4.495	4.295	2.800	3.000	-100.000	100.000	250.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DQ	4.495	4.295	2.500	2.900	-150.000	150.000	350.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DR	4.515	4.315	2.500	2.900	-50.000	50.000	150.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DS	4.515	4.315	2.800	3.000	-100.000	100.000	250.000	DFN -6 (1.6x1.9)	MP
New	TMI4012DT	4.515	4.315	2.500	2.700	-150.000	150.000	350.000	DFN -6 (1.6x1.9)	MP
New	TMI4012SA	4.425	4.225	2.800	2.800	-50	50	150	SOT23-6	MP
New	TMI4012SB	4.425	4.225	2.800	3.000	-50	50	150	SOT23-6	MP
New	TMI4012SC	4.250	4.050	2.500	2.700	-50	50	150	SOT23-6	MP
New	TMI4012SD	4.250	4.050	2.500	2.900	-100	100	200	SOT23-6	MP
New	TMI4012SE	4.250	4.050	2.600	2.800	-150	150	300	SOT23-6	MP
New	TMI4012SF	4.280	4.080	2.400	2.800	-100	100	200	SOT23-6	MP

2 节锂电池负极保护 IC

Hot

Part Number	V_{OVP} (V)	V_{OVR} (V)	V_{UVP} (V)	V_{UVR} (V)	V_{COCP} (mV)	V_{DOCP1} (mV)	V_{DOCP2} (mV)	V_{SHORT} (mV)	休眠自恢复功能	Package	Status
TMI4021	3.650	3.400	2.000	2.500	-200	200	380	1000	No	SOT23-6	MP
TMI4022A	4.300	4.100	2.900	3.000	-200	200	380	1000	No	SOT23-6	MP
TMI4022B	4.280	4.080	2.900	3.000	-200	200	380	1000	No	SOT23-6	MP
TMI4022C	4.250	4.050	2.500	3.000	-200	200	380	1000	No	SOT23-6	MP
TMI4022D	4.280	4.080	2.800	3.000	-200	200	380	1000	Yes	SOT23-6	MP

7/8/9/10 节锂电池负极保护 IC

Hot

Hot

Part Number	V_{OVP} (V)	V_{OVR} (V)	V_{BL} (V)	V_{UVP} (V)	V_{UVR} (V)	V_{DOCP} (V)	V_{COCP} (V)	过放锁定	断线检测	Package	Status
TMI4101AN	4.250	4.150	4.200	2.700	3.000	0.100	0.050	Yes	Yes	SSOP28	MP
TMI4101DN	3.750	3.550	3.515	2.200	2.700	0.100	0.040	Yes	Yes	SSOP28	MP

11/12/13/14 节锂电池负极保护 IC

Hot

Hot

Part Number	V_{OVP} (V)	V_{OVR} (V)	V_{BL} (V)	V_{UVP} (V)	V_{UVR} (V)	V_{DOCP} (V)	V_{COCP} (V)	过放锁定	断线检测	Package	Status
TMI4151AN	4.250	4.150	4.200	2.700	3.000	0.100	0.050	Yes	Yes	TSSOP30	MP
TMI4151DN	3.750	3.550	3.515	2.200	2.700	0.100	0.040	Yes	Yes	TSSOP30	MP

拓尔接口控制芯片

Interface Control Chips

拓尔的接口控制类产品包括 USB Type-C PD 控制器、USB Type-C 电源管理芯片、USB Type-A 控制器和 USB Type-C&PD 控制器等，主要应用于旅充、车充、显示器、储能、扩展坞等产品。其中，Type-C PD 控制器和 Type-C 电源管理芯片可搭配使用，为环保的 Type-C 端口提供更加高效和安全的解决方案。



USB Type-C PD 控制器

USB A 口 /C 口快充协议芯片 (DFP)

	Part Number	VIN Range(V)	USB Port	PD	Protocol	Feedback	Load Switch	VCONN	Functions	Protection	Package	Status
Hot New	IM2404	3.0 to 18	C	PD2.0/ PD3.0 with PPS	DCP,Apple2.4A,QC2.0,QC3.0	OPTO/I ² C	NMOS	No	With TID	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-16	MP
	IM2406	3.0 to 24	C	PD2.0/ PD3.0 with PPS	DCP,Apple2.4A,QC2.0/3.0/4.0/ 4.0+,FCP,SCP,AFC,PE	OPTO/I ² C	NMOS	Yes	With TID, Max100W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-16	MP
	IM2406A	3.0 to 28	C	PD2.0/ PD3.0/ PD3.1/PPS	DCP,Apple2.4A,QC2.0/3.0/4.0/ 4.0+,FCP,SCP,AFC,PE	OPTO/I ² C	PMOS	Yes	With TID, Max140W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-16	MP
	IM2403	3.0 to 24	A+C	PD2.0/ PD3.0 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3.0/4.0/4.0+, A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/OPTO/I ² C	NMOS	Yes	Multi port independent	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-32	MP
Hot New	IM2403A	3.0 to 24	A+C	PD2.0/ PD3.0 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3. 0/4.0/4.0+,FCP,SCP,AFC,PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/OPTO/I ² C	NMOS	Yes	Multi port shared 5V	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-24	MP
	IM2413N	3.0 to 30	A+C	PD2.0/ PD3.1 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3. 0/4.0/4.0+,FCP,SCP,AFC,PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/I ² C	NMOS	Yes	Multi port independent, Max 100W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-24	ES
	IM2413P	3.0 to 30	A+C	PD2.0/ PD3.1 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3. 0/4.0/4.0+,FCP,SCP,AFC,PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/I ² C	PMOS	Yes	Multi port independent, Max 140W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-24	ES
	IM2423	3.0 to 30	C+C	PD2.0/ PD3.1 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3. 0/4.0/4.0+,FCP,SCP,AFC,PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/I ² C	NMOS	Yes	Multi port independent, Max 100W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-28	ES
Hot	IM2423P	3.0 to 30	C+C	PD2.0/ PD3.1 with PPS	C: PD,DCP, Apple2.4A,QC2.0/3. 0/4.0/4.0+,FCP,SCP,AFC,PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/I ² C	PMOS	Yes	Multi port independent, Max 140W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-28	ES
	IM2405	3.0 to 24	C	PD2.0/ PD3.0 with PPS	DCP,Apple2.4A,QC2.0/3.0/4.0/ 4.0+,FCP,SCP,AFC,PE	OPTO/I ² C	NMOS	Yes	With TID, Max100W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-16	MP
	IM2405A	3.0 to 24	C	PD2.0/ PD3.0 with PPS	DCP,Apple2.4A,QC2.0/3.0/4.0/ 4.0+,FCP,SCP,AFC,UFCS	OPTO/I ² C	NMOS	Yes	UFCS /TID	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-16	MP
	IM2415	3.0 to 24	C	PD2.0/ PD3.0 with PPS	DCP,Apple2.4A,QC2.0/3.0/4.0/ 4.0+,FCP,SCP,AFC,PE	FB/OPTO	NMOS	Yes	With TID, Max100W	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN3x3-16	ES
Hot New	TMI9431	3.0 to 30	C+C+A	PD2.0/ PD3.1 with PPS	C1/C2: PD,DCP, Apple2.4A,QC 2.0/3.0/4.0/4.0+,FCP,SCP,AFC, PE; A:QC2.0/3.0,FCP,SCP,AFC,PE	FB/OPTO	NMOS	Yes	Multi port shared 5V	OVP,UVP,OCp,OTp,TSOTp,etc.	QFN4x4-32	ES

USB Type-C 电源管理芯片

Buck

	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	TMI3351	4.0 to 30	6	100k to 1000k	0.8 to 28	0.8	Adj.	CM	PWM/PFM	Sync.Buck Converter	QFN5x5-28	MP
	TMI3352A	4.0 to 33	6	150k to 500k	0.6 to 28	0.8	3.5	CM	PFM/PWM	Sync converter with CC Mode	QFN5x5-32	MP
Hot	IM5200	4.0 to 36	>10	100k~1000k	0.8 to 36	0.8/DAC	Adj.	CM	PWM/PFM	I ² C Control/High Efficiency	QFN3x3-20	MP
New	TMI3451	4.0 to 36	>10	100k~1000k	0.8 to 36	0.8	Adj.	CM	PWM/PFM	High Efficiency	QFN3x3-20	MP
	TMI3455	4.0 to 36	>10	100k~1000k	0.8 to 36	0.6/DAC	Adj.	COT	PWM/PFM	I ² C +Slew rate/load-switch control	QFN3x3-20	MP
	TMI3452	3.5 to 36	>10	150k~500k	0.8 to 36	0.6	3.5	CM	PWM/PFM	High Efficiency/EMI optimize	QFN3x3-16	ES

Buck-Boost

	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	TMI2605S	3.7 to 23	4	300k~500k	1.25~5	1.25	3	CM	FCCM/PFM/PWM	Sync.Converter /Power Path Control	QFN4x4-28	MP
Hot	TMI5700	3.9 to 34	>5	100k~1000k	0.59 to 30	0.59/DAC	Adj.	CM	FCCM/PFM/PWM	I ² C Control/DAC/ High Efficiency	QFN4x4-28	MP
	TMI5700A	3.9 to 36	>5	100k~1000k	0.59 to 30	0.59/DAC	Adj.	CM	FCCM/PFM/PWM	I2C Control/DAC/ High Efficiency	QFN4x4-28	ES
	TMI5810	2.8 to 32	>5	200k~600k	2.0 to 32	1	8ms	CM	PFM/PWM	Bi-directional Charger	QFN4x4-32	MP
New	TMI5330	3.5 to 26	5	150k~700k	0.6 to 22	0.6	Adj.	CM	FCCM/PFM/PWM	Simplify/ High Efficiency	QFN4x4-24	ES

USB Type-A 控制器
USB-A 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
	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
Hot	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
Hot	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-A 口快充识别 IC

Part Number	V _{in} Range(V)	Support Hisillicon FCP	Support QC2.0/QC3.0	Automatic Select FCP and QC2.0/QC3.0	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 to 6.4	Yes	Yes	Yes	Yes	Yes	Yes	SOT23-6	MP
TMI9290A	3.2 to 6.4	Yes	Yes	Yes	Yes	Yes	Yes	SOP8	MP

Signal Processing Chips

霍尔开关

	Part Number	Type	VCC (V)	Bandwidth (kHz)	Output	Operate point (Max) (Gs)	Release point (Min) (Gs)	Package	Status
Hot	TMI86820LxT	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±30	±20	TO-92S	MP
Hot	TMI86820LxS	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±30	±20	SOT23-3	MP
	TMI86820HxT	Omni-Polar	1.6 to 5.5	20	Open- Drain	±30	±20	TO-92S	MP
	TMI86820HxS	Omni-Polar	1.6 to 5.5	20	Open- Drain	±30	±20	SOT23-3	MP
Hot New	TMI86880LxS	Omni-Polar	1.6 to 5.5	0.005	Open- Drain	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86880LBx	Omni-Polar	1.6 to 5.5	0.005	Open- Drain	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880LCx	Omni-Polar	1.6 to 5.5	0.005	Open- Drain	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880LDx	Omni-Polar	1.6 to 5.5	0.005	Open- Drain	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86880MAx	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86880MBx	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880MCx	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880MDx	Omni-Polar	1.6 to 5.5	0.02	Open- Drain	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880HAx	Omni-Polar	1.6 to 5.5	0.1	Open- Drain	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880HBx	Omni-Polar	1.6 to 5.5	0.1	Open- Drain	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880HCx	Omni-Polar	1.6 to 5.5	0.1	Open- Drain	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86880HDx	Omni-Polar	1.6 to 5.5	0.1	Open- Drain	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot	TMI86600xT	Unipolar	3.0 to 24	10	Open- Drain	120	80	TO-92S	MP
Hot	TMI86600xS	Unipolar	3.0 to 24	10	Open- Drain	-120	-80	SOT23-3	MP
Hot	TMI86620LxT	Latch	3.0 to 24	10	Open- Drain	25	-25	TO-92S	MP
Hot	TMI86620LxS	Latch	3.0 to 24	10	Open- Drain	25	-25	SOT23-3	MP
New	TMI86630LxT	Latch	3.0 to 24	10	Pull-up resistor	25	-25	TO-92S	MP
New	TMI86630LxS	Latch	3.0 to 24	10	Pull-up resistor	25	-25	SOT23-3	MP
Hot New	TMI86881LxS	Omni-Polar	1.6 to 5.5	0.005	CMOS Output	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86881LBx	Omni-Polar	1.6 to 5.5	0.005	CMOS Output	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86881LCx	Omni-Polar	1.6 to 5.5	0.005	CMOS Output	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86881LDx	Omni-Polar	1.6 to 5.5	0.005	CMOS Output	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86881MAx	Omni-Polar	1.6 to 5.5	0.02	CMOS Output	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
Hot New	TMI86881MBx	Omni-Polar	1.6 to 5.5	0.02	CMOS Output	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86881MCx	Omni-Polar	1.6 to 5.5	0.02	CMOS Output	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
	TMI86881MDx	Omni-Polar	1.6 to 5.5	0.02	CMOS Output	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP

Hot
New

Part Number	Type	VCC (V)	Bandwidth (kHz)	Output	Operate point (Max) (Gs)	Release point (Min) (Gs)	Package	Status
TMI86881HAX	Omni-Polar	1.6 to 5.5	0.1	CMOS Output	±24	±14	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
TMI86881HBX	Omni-Polar	1.6 to 5.5	0.1	CMOS Output	±40	±30	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
TMI86881HCX	Omni-Polar	1.6 to 5.5	0.1	CMOS Output	±70	±50	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
TMI86881HDX	Omni-Polar	1.6 to 5.5	0.1	CMOS Output	±470	±430	SOT23-3/TO-92S/DFN4L-1.6x1.2	MP
TMI86810T	Unipolar	1.6 to 5.5	/	CMOS Output	25	15	TO-92S	MP
TMI86810S	Unipolar	1.6 to 5.5	/	CMOS Output	25	15	SOT23-3	MP
TMI86810D	Unipolar	1.6 to 5.5	/	CMOS Output	25	15	DFN4L-1.6x1.2	MP

Hot

TDC

Part Number	V _{in} Range(V)	Operating Temperature (°C)	Time Resolution (ps)	Standard Deviation (ps)	Measurement Range	stop Signals	Data Interface	Minimum Time between Start and stop	Minimum Time between Stop and stop	Iop	Iq	Package	Status
TMIS7701/ TMIS7701C	2.1 to 3.6	-40~125	38	10ps (Mode 1) 45ps (Mode 2)	3ns to 1000ns (Mode 1) 250ns to 8ms (Mode 2) 0ns to 1000ns (Mode 3) 250ns to 250ms (Mode 4)	5	SPI	3ns (Mode 1) 0ns (Mode 3)	40ns	1.3mA	75uA	TSSOP-14P	MP
TMIS7702/ TMIS7702C	2.1 to 3.6	-40~125	19	10ps (Mode 1) 45ps (Mode 2)	3ns to 1000ns (Mode 1) 250ns to 8ms (Mode 2) 0ns to 1000ns (Mode 3) 250ns to 250ms (Mode 4)	10	SPI	3ns (Mode 1) 0ns (Mode 3)	0ns	2.6mA	150uA	VFBGA-25P	MP
TMIS7722	2.5 to 3.6	-40~125	70	70ps (typ.) 35ps (Double Resolution) 18ps (Quad Resolution)	3.5ns to 2400ns (Mode 1) 500ns to 4ms (Mode 2)	4	SPI	3.5ns (Mode 1) 500ns (Mode 2)	20ns (Mode 1) 700ns (Mode 2)	4mA	2.3uA	QFN-32	ES

Hot

Hot

比较器

高速比较器

Part Number	V _{in} Range(V)	Number of channels	Operating Temperature(°C)	Speed	Iq	Input Bias Current	Input Voltage Range	Output Stage	Input hysteresis	other funtion	Package	Status
TMIS23501	2.7 to 3.6	1	-40~125	4.5	2mA	10pA	-0.4V to +5.9V	CMOS Push-Pull	6mV	Turn-Off/EN	SOT23-6	MP
TMIS23502	2.7 to 3.6	2	-40~125	4.5	2mA	10pA	-0.4V to +5.9V	CMOS Push-Pull	6mV	Turn-Off/EN	SOT23-5	MP
TMIS23601	2.7 to 5.5	1	-40~125	3	4mA	10pA	-0.4V to +5.9V	CMOS Push-Pull	3mV	Turn-Off/EN/ UVLO	SC70-5	ES

放大器

跨阻放大器

Part Number	V _{in} Range(V)	Operating Temperature(°C)	Transimpedance gain	-3dB bandwidth(1.5pF)	Iq	Equivalent input-referred current noise	Output Stage	Input hysteresis	other funtion	Package	Status
TMIS1857	3.0 to 3.6	-40~85	20kΩ / 5kΩ	105MHz/125MHz	30mA	25nA / 40nA	Pseudo-differential output	6mV	Test mode Turn-Off/EN	VQFN-16	ES

OPA

Part Number	Channel	VDD(V)	Common Mode Voltage(V)	Gian	Vos _{max} (μ V)	Slew Rate(V/us)	IB(μ A)	Iq(μ A,typ.)	Package	Status
TMIS1296	1	3.0~18	-0.1~70	100	500	20	500	300	SOT23-6	ES
TMIS1196	1	2.5~5.5	-0.1~5	adj.	200	-	1	-	SOT23-6	ES

栅极驱动器

GaN 高速栅极驱动器

Part Number	V _{in} Range(V)	Operating Temperature($^{\circ}$ C)	Peak current	Propagation delay (100pF load)	rise/fall time (100pF load)	Minimum input pulse width (100pF load)	Iq	Iop (30Mz, 100pF load)	other funtion	Package	Status
TMIS1025	4.75 to 5.25	-40~150	+6A / -5A	2.4ns / 2.4ns	310ps / 360ps	1ns	12 μ A	43mA	UVLO OTP	QFN-6 WCSP-6	ES

拓尔汽车应用

Automotive Applications

在汽车领域，其电子器件需满足更为严苛的 AEC-Q100 和 ISO26262 等车规标准要求，拓尔微马达驱动系列、充电协议、高效率 Buck&BuckBoost 及车用 DC/DC 均在申请相关车规认证，已应用在汽车大灯、车窗、门锁、充电枪等各个关键部件，逐渐实现车规级产品的全面布局。为汽车前装市场及需要车规级产品的特定应用提供高性能、高可靠性和高性价比的芯片解决方案。



驱动系列

直流有刷马达驱动

Part Number	VM(V)	Channel	Input Mode	Con./Peak Cur.(A)	$R_{ds(on)} (HS+LS) (\Omega)$	CC mode	Protection	Package	Status
TMI8116-Q1	4.5 to 37	1 ch Full Bridge	PWM/PHEN/ Independent Half-Bridge	2.0/3.5	0.49	Vref/Iprop	UVLO, TSD, OCP	HTSSOP16	MP
TMI8122-Q1	4.5 to 37	1 ch Full Bridge	PWM/PHEN/ Independent Half-Bridge	4.0/10.0	0.18	Vref/Iprop	UVLO, TSD, OCP	HTSSOP16	MP
TMI8140-Q1	8.0 to 40	1 ch Full Bridge	PWM	7.0/13.0	0.05	/	UVLO, TSD, OCP	DFN5x6-15	MP

多路半桥驱动

Part Number	VM(V)	Channel	Input Mode	Con./Peak Cur.(A)	$R_{ds(on)} (HS+LS) (\Omega)$	CC mode	Protection	Package	Status
TMI8512-Q1	4.5 to 32	12 ch Independent Half-Bridge	SPI	6.0A (12 ch paralleled outputs)	1.5	/	UVLO,OVP,OCP,POR,OLD OTW/TSD,nFAULT	ETSSOP24	ES

步进马达驱动

Part Number	VM(V)	Input Mode	Channel	Con./Peak Cur.(A)	$R_{ds(on)} (HS+LS) (\Omega)$	Protection	Package	Status
TMI8420-Q1	8.0 to 45	STEP/DIR (1/32)	2	2.5/2.8	0.4	UVLO, TSD, OCP	HTSSOP28	MP
TMI8420Q	8.0 to 45	STEP/DIR (1/32)	2	2.5/2.8	0.4	UVLO, TSD, OCP	QFN5x5-28	MP

高低边驱动

Part Number	VM(V)	Channel	Con./Peak Cur.(A)	$R_{ds(on)} (HS+LS) (\Omega)$	CC mode	Protection	Package	Status
TMI82H05D-Q1	5 to 28	2	7.0/10.0	0.035	SELx/ MultiSense	UVLO, TSD, OVP, Overload	DFN6x5-16	MP

有刷栅极驱动

Part Number	VDD(V)	Input Mode	Adjustable Parameter	Channel	Driver MOS	Con./Peak Cur.(A)	Ton/Toff(ns)	Protection	Package	Status
TMI8720-Q1	5.0 to 40	PWM	/	1 Full Bridge	P+N	Sink/Source: 0.20/0.05	600/150	UVLO,TSD,OCP	DFN3x3-10	MP
TMI8721-Q1	5.5 to 38	PWM/PHEN/ Independent Half-Bridge	SPI software control: I_{DRIVE} 8 levels, t_{DEAD} 4 levels, A_V 4 levels, t_{OFF} 4 levels, $t_{(WDI)}$ 4 levels, $V_{DS(OCP)}$ 8 levels	2 half bridge	N+N	Sink/Source: 0.44/0.22	500/500	UVLO,CPUV, OCP,GDF, nFAULT,TSD, SCP	QFN5x5-32	MP
TMI8722-Q1	5.5 to 38	PWM/PHEN/ Independent Half-Bridge	Hardware control: I_{DRIVE} 6 levels, $V_{DS(OCP)}$ 6 levels	2 half bridge	N+N	Sink/Source: 0.44/0.22	500/500	UVLO,CPUV, OCP,GDF, nFAULT,TSD,SCP	QFN5x5-32	MP
TMM8726-Q1	4.9 to 37	PWM	SPI software control: IDRIVE 16 levels, t(DEAD) 4 levels, AV 4 levels, toff 4 levels, t(DRIVE) 8 levels, VDS(OCP) 16 levels	8 half bridge	N+N	Sink/Source: 0.062/0.062	300/300	UVLO,POB, OVP,TSD,CPUV, GDF,VGS,VDS, OLSC,nFAULT, BRAKE	QFN8x8-56	ES

三相栅极驱动

Part Number	VDD(V)	VB Max.(V)	Channel	Driver MOS	Input Mode	Con./Peak Cur.(A)	Ton/Toff(ns)	TDEAD(ns)	Protection	Package	Status
TMI87301-Q1	5.0 to 60	/	3 half bridge	N+N	HIN、LIN	Sink/Source: 0.8/0.55	800/80	Adjust	UVLO, TSD, OCP	QFN4x4-28	ES

无刷电机驱动

Part Number	Function	VM(V)	Control Mode	Commulation	Con./Peak Cur.(A)	Rds(on) (HS+LS) (Ω)	sensor	Protection	Package	Status
TMI85303-Q1	3 相无感电机驱动	4.0 to 40	I ² C/PWM/Analog	Sinusoidal/ Trapezoidal	1.5/3.0A	0.51	Sensorless	UVLO, TSD, OCP, OVP	QFN5x5-28	ES

多开关检测接口 (MSDI) IC

Part Number	Function	V _s (V)	Control Mode	IO current(mA)	Input/output voltage(max) (V)	Input/output voltage(min) (V)	Diagnostics	Features	Package	Status
TMF82124-Q1	24 路开关检测接口	4.5 to 35	SPI	1/2/5/10/15	40	-24	ADC self-diagnostic, Wetting current diagnostic	Configurable wetting current, Integrated 10-bit ADC, Interrupt wake-up operation, Overvoltage warning, Polling mode, SPI, Undervoltage warning, Withstands load dump condition and reverse polarity condition	TSSOP38	ES

电源管理系列

LDO

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)	Functions	Package	Status
TMI6411-XXTB-Q1	3.5 to 36	0.2	3.3/ 5.0	±1%	2.5	58	60	OCP/OTP/UVLO/SCP	SOT89-5	MP
TMI6411-XXDA-Q1	3.5 to 36	0.2	3.3/ 5.0	±1%	2.5	68	68	OCP/OTP/UVLO/SCP	DFN3x3-8	MP

Camera PMIC

Part Number	Function	V _{in} (V)	I _{out} (A)	OVP	OCP	OTP	UVLO	SCP	Package
TMI7205B-Q1	4CH PMU	4.5 to 30	1/1/1/0.3	✓	✓	✓	✓	✓	QFN4x4-24

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