

## A Passion for High Performance Power IC















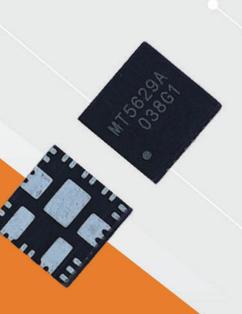






高阶电源管理IC设计 效率高、电感小、电压稳定、低干扰

- BUCK Converter
- · PMUS
- · Load Switch, Type C port protector
- · Linear Regulators
- Charger
- Boost converter/controller, Buck Boost Controller



选型手册

Product Selection Guide 2024 Q2

# ABOUT US

成立于 2010 年,来颉科技主要从事模拟 (Analog) 暨混合讯号 (Mixed-signal) 集成电路设计、测试、生产及营销等业务,并专注于高阶电源管理 IC 设计与销售,提供效率高、电感小、电压稳定、低干扰的电源管理 IC 芯片。主要团队是由美国、台湾和大中华地区精英所组成的电源 IC 设计公司。

电源管理 IC 已被广泛使用于计算机、通讯及消费性电子等产品。新兴的科技变革如通讯产业的Wi-Fi 7、5G、云端储存产品以及 USB Type-C 的导入,对高阶电源管理 IC 将有更高规格及高整合之需求。

公司以客户服务为导向,建立与客户的长期合作关系,藉由客制化、高整合度、高效能、高质量与具竞争力的电源管理快速的市场回馈,以及在地生产的优势环境下,为顾客提供解决方案。

愿景

透过M3tek 经营团队的持续努力,让M3tek 成为客户首选电源管理方案供应商。



· 1.5 MHz 单节锂电池切换式充电

适配器的 1.6 A 锂电池充电 IC

IC 发表应用于 USB 端口及 AC

· 发表超高精度 1% 回授电压

· 发布业界首款超小型高整合

双向限电流限电压 20V/6A

低压同步降压转换器

负载开关

2018-2019

·公司中文名称更名为来颉科技

· 发表高效率低压同步升压转换器

・转投资西安来颉子公司

· 获 ISO9001 认证

#### 强化客户体验

M3tek以持续提供客户创新、可靠、高效率及高CP值的产品为使命。借以增强客户信赖度及其产品的竞争力。

#### 持续研发投入

持续投入大量研发 资源,持续挑战及 研究新技术,开发 更高规格的产品

#### 加速新产品开发

5G+WiFi7提供了远程医疗,远程教学和远程办公可行性。通过M3tek产品的创新,协助我们客户去实现远程应用,并降低碳排放量、减缓全球暖化。

#### 随时做好准备

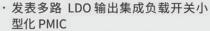
产业环境及终端消费 市场因受到外在刺 激,需求瞬息万变, M3tek开发具高规 格、可靠性高、低功 耗之产品以因应产业 之变化。

### 2020-202

- · 发表 28 V 高耐压 4 A 小封装过电压过电流保护切换开关 IC, 低电压 4 A 小封装 DFN1.2x1.6 保护开关 IC
- · 发表高集成 Type C 过压保护 IC 内部集成 TVS 保护元件
- ·发表高集成升降压转换器及控制器,以及低电压 高输出电流 6 A 小封装 DFN2x3 同步降压转换器
- · 登录兴柜,准备申请上市/柜
- · 发布超级电容电源管理器,用于备用电源应用
- ・推出 24V 高电压 2A/3A 支持 100% 占空比高效 能同步降压 IC
- · 推出双路 36V/3A 同步降压转换器,具有四路恒流限制输出
- ·推出高压 24VIN / lout-4A 小封装 SOT23\_8, 24VIN / lout-5A 并带外部可调限流的高集成的同 步降压转换器
- · 推出高压 28V 输入支持 6A 输出电流及 100% 占 空比高效率降压转换器,应用于网路通讯及电脑 周边
- · 推出切换频率 1.2MHz,支持 7A 连续输出电流的同步低压降压转换器,集成于小封装 QFN2x3
- ·发布高集成高压同步升压转换器,支持切换电流 达 18A,集成于小封装 QFN3x4

- ·推出超小型封装 DFN 1.5x1.0\_5L 支持 3A 输出电流降压转换器
- · 推出低电压高电流 5A/QFN3x3\_16L, 6A/QFN2x2\_12L 降压转换器
- · 推出 28V/6A/500KHz & 200KHz 高集成 升压 - 降压转换器 QFN5X5\_28L 封装
- · 推出低电压 6A/2.2MHz 快速响应同步降 压转换器
- · 推出宽电压 28V/6A 升压 降压控制器
- · 推出支持 DDRII~IV 3A 电流调节转换器
- ·推出双向电流开关及过电压保护的 21V/6A负载开关驱动器
- · 推出低电压 1.2MHz 输出电流 6A/10A 快速响应同步降压转换器
- · 推出 28V/8A 可调频率 200K~1.2MHz & 18V/8A/700KHz 高集成 QFN3x3\_16L 同 步降压转换器

M3 TECHNOLOGY INC.



- ·发表高电压 28 V 输入,高电流 6A 输出同步降压 100% Duty 降压转换器
- ·发表超小封装 1.6x1.2 ,大电流 4A 负载开关保护 IC
- · 发表高集成同步升压 20A 转换器

- ·推出先进制程低电压高频率 2.5MHz 切换式降压 IC
- ·推出超小型封装 DFN1.5x1.5 高频率切换式降压 IC
- ·发布高精度充放电及内建平衡的超级电容电源管理 IC
- · 推出 18V 高压 1.5MHz & 高频率 2.5MHz 高频率小封装 SOT563 切换式降压 IC
- ·推出高耐压 28V 过电流过电压,可调整电流限 DFN2x2 封装负载开关 IC
- · 推出宽电压输入、过电压过电流、防逆电压功率管控制器的负载开关
- ·发布高耐压支持单节/双节高精度充放电及内建平衡的超级电容电源管理 IC
- ·推出高耐压 26V/5A, 200KHz/500KHz 自带可调整限电流同步降压转换器
- · 推出 18V 耐压具外接反向功率管控制器的大电流负载开关器
- ·推出单输入双输出低压 2A、高频率 2.5MHz、小尺寸降压转换器

#### 产品类别

- Boost DC-DC Converter/PWM Control
- Buck-Boost DC-DC Converter
- LV Buck DC-DC Converter
- HV Buck DC-DC Converter
- LDO 线性转换
- DDR Termination

- Load Switch
- Multi-Channel PMUs
- Lithium Battery Charger
- Super Capacitor
- Ideal Diode
- USB Type-C CC & SBU Protection IC





A PASSION FOR HIGH PERFORMANCE POWER IC

M3 TECHNOLOGY INC.

#### Boost (Step-Up) DC/DC Converter

New product

	70.	/	ut Voltage	itch Current	ed White Ontoury	ottage (V)	scentual grentual	itdown (up)	inach ob		//	/20		Protection	,
	Part No.	Inp	ut Swi	HET. FI	ed. (1) Output	On	iner, shi	urel. Acc	The A	8/1/	2/0	of Sta	OTP Short	Protec Package	Motes
D	MT5075	0.9~5	0.35 0.45 0.8	0.8	Fixed 2.8/3.3/5	9	0.01	-	-	٧	х	Х	х	SOT23_5L	Low Input Voltage Step-up Converter with Low Quiescent Curren
	MT5070	0.9~5	0.45	0.8	Fixed 2.7/3.3/5 ADJ	12	0.01	±3	0.5	٧	Х	X	х	SOT23_6L	Low Input Voltage Step-up Converter with Low Quiescent Current
	MT5080	2.7~6	1	1.5	Vadj ~50Vmax	160	1	±3	1.25	٧	V	٧	х	SOT23_5L DFN2x2_6L	Asynchronous Step-Up DC/DC Converter with 50V 1A Integrated Switch
	MT5037	2.5~5.5	4	0.8	Fixed 5.15 Vadj	125	0.1	±2	0.5	٧	V	V	V	DFN3x3_10L	High Current Sync-Boost Converter Light Load Pulse Skip Mode
	MT5033	2.5~5.5	6	0.8	Fixed 5.15 Vadj	125	0.1	±2	0.5	٧	٧	٧	V	SOP8_EP	High Current Sync-Boost Converter Light Load Pulse Skip Mode
	MT5035	3~5.5	6.5	0.55	Fixed 5.15 Vadj	80	0.2	±3	0.5	٧	٧	٧	٧	SOP8_EP	High Current Sync-Boost Converter, Light Load Pulse Skip Mode, Thermal Folback
	MT5036	2.5~5.5	6.6	0.8	Fixed 5.15 Vadj	125	0.1	±2	0.5	٧	V	٧	٧	QFN4x4_16L	High Current Sync-Boost Converter Light Load Pulse Skip Mode
	MT5083	2.7~30	20	Adj 50K~ 1MHz	30V_Max Vadj	70	3.5	±1.5	1.203	٧	٧	V	Х	QFN4x4_22L	High Current Sync-Boost Converter with Light Load PSM Mode
	MT5087	2.7~18	20	Adj 50K~ 1MHz	18V_Max Vadj	70 140	5	±1.5	1.203	٧	V	٧	х	QFN4x4_20L	High Current Sync-Boost Converter with Light Load PSM Mode
	MT5087A	2.7~18	20	Adj 50K~ 1MHz	18V_Max Vadj	70 140	5	±1.5	1.203	٧	V	V	х	QFN4x4_20L	High Current Sync-Boost Converter Forced PWM
	MT5088	2.7~30	20	Adj 50K~ 1MHz	30V_Max Vadj	70	5	±1.5	1.203	٧	٧	٧	х	QFN4x4_20L	High Current Sync-Boost Converter with Light Load PSM Mode
	MT5088A	2.7~30	20	Adj 50K~ 1MHz	30V_Max Vadj	70	5	±1.5	1.203	٧	٧	٧	х	QFN4x4_20L	High Current Sync-Boost Converter Forced PWM

#### Boost (Step-Up) DC/DC PWM Control

Path	o. Indi	ut Voltage	ia mo	SEET TYPE OUTDI	Wolfage TV		down und	macy olo	BIN	M /4	of start	OTP Sh	hort Protection	Motes
MT5086	2.7~30	Adj 50K~ 1MHz	Dual N	30V_Max	55	5	±1.5	1.203	V	٧	٧	V	QFN3x3_16L	2.7V to 30V Input 55µA Quiescent Current Synchronous Boost Controller

#### Buck-Boost (Step Down-Up) DC/DC PWM Control and Converter

	Part MC	indi	t voltagely)	Jut Voltage N	(KHZ)	uracy <sup>[0]0]</sup>	MOSEE NOSEE	Type	irent st	A Jurent	Jun S	of Start	TR S	nort Protection Pactage	Hotes
	MT5628	3.1~28	1V~28V	600	±1	1	External	1.3	1	٧	٧	٧	V	QFN4x4_20L	28V Wide Voltage Range 4-Switch Buck-Boost Controllerr
\	MT5629	3.1~28	1V~28V	600	±1	1	Integrated 17mohm*4	1.3	1	٧	٧	٧	٧	QFN5x5_28L	28VIN up to 6A Synchronous 4-Switch Buck-Boost Converter
	MT5639	3.1~28	1V~28V	200	±1	1	Integrated 17mohm*4	1.3	1	٧	٧	٧	٧	QFN5x5_28L	28VIN up to 6A Synchronous 4-Switch Buck-Boost Converter

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0	MT8351A (D)(Q)	2~5.5	1	1.5	0.35	±1	) <del>=</del> 3	٧	٧	٧	5	DFN2x2_6L	Synchronous Step-Down Converter, VSET pin
0	MT8101	2.5~6	1	2.3	26	±2	9	V	v	٧	15	DFN2x2_6L	Synchronous Step-Down Converter, Vout Fixed0.9/1.1/1.2/1.3V
	MT3152N(A)	2.5~6	1.5	1.5	28	±1.5	0.6	٧	٧	٧	50	SOT23_5L DFN2x2_6L	Sync. COT Buck Converter with Output Discharge
	MT3161	2.5~6	1.5	2.5	15	±1.5	0.6	٧	V	V	190	SOT563 QFN1.1x1.1_6L	Sync. COT Buck Converter with Light Load PSM
	MT8161N(A)	2.7~6	1.5	2.5	25	±1.5	0.6	٧	٧	٧	20	SOT563	Sync. COT Buck Converter with Light Load PSM
	MT3132N(A)	2.5~6	1.5	2.5	28	±2	0.6	V	V	V	50	SOT23_5L DFN2x2_6L	Sync. COT Buck Converter with Output Discharge
	MT8152N(A)	2.7~6	2	1.5	28	±1.5	0.6	٧	٧	٧	20	SOT23_5L DFN2x2_6L	Sync. COT Buck Converter with PG, Output Discharge
0	MT8182A	2.7~5.5	2	1.5	500	±0.5	0.6	V	V	٧	20	DFN1.5x1.5_6L	Fast PWM Synchronous Step-Down Converter (2.5A Peak)
	MT8183A	2.5~5.5	2	1.5	600	±0.5	0.6	٧	٧	٧	20	DFN1.5x1.5_6L	Synchronous Step-Down DC/DC Converter (3A Peak)
	MT3112	2.5~6	2	2.5	15	±2	0.6	V	V	V	1500	SOT23_5L	Sync. COT Buck Converter with PG, Output Discharge for 1-Cell Li-Ion Application
	MT8102N(A)	2.7~6	2	2.5	28	±1.5	0.6	٧	٧	٧	50	SOT23_5L SOT23_6L DFN2x2_6L	Sync. COT Buck Converter with PG, Output Discharge
0	MT8192N(A)	2.7~5.5	2	2.5	25	±0.5	0.6	٧	V	٧	20	DFN2x2_6L DFN1.5x1.5_6L	Fast PWM Synchronous Step-Down Converter
	MT3162	2.5~6	2	2.5	15	±1.5	0.6	٧	٧	٧	150	SOT563	Sync. COT Buck Converter with Light Load PSM
	MT8162N(A)	2.7~6	2	2.5	25	±1.5	0.6	٧	V	٧	20	SOT563	Sync. COT Buck Converter with Light Load PSM
	MT8172N	2.7~6	2	2.5	25	±1.5	0.6	٧	V	٧	20	SOT563	Sync. COT Buck Converter with Light Load PSM With PG Function
0	MT8163A	2.7~5.5	3	1.4	600	±0.5	0.6	٧	V	٧	20	DFN 1.5x1.5_6L	Synchronous Step-Down DC/DC Converter
0	MT8173N(A)	2.5~5.5	3	1.5	18	±0.5	0.6	٧	٧	٧	20	DFN1.5x1.0_5L	Synchronous Step-Down DC/DC Converter
	MT8133N	2.5~5.5	3	1.5	18	±2	0.6	٧	V	٧	50	DFN2x2_8L SOT23_5(6)L	Synchronous Step-Down DC/DC Converter
	MT8193N(A)	2.5~5.5	3	1.5	18	±2	0.6	٧	٧	٧	20	SOT23_5(6)L DFN2x2_8L	Sync. COT Buck Converter with PG, Output Discharge
	MT8068N	2.5~5.5	3	1.5	18	±2	0.6	٧	V	٧	50	DFN3x3_10L	Synchronous Step-Down DC/DC Converter
	MT8168N(A)	2.5~5.5	3	1.5	18	±2	0.6	٧	٧	٧	20	DFN3x3_10L	Synchronous Step-Down DC/DC Converter
	MT8593N(A)	2.5~5.5	3	2.5	18	±2	0.6	V	V	V	20	SOT23_5(6)L DFN2x2_8L	Sync. COT Buck Converter with PG, Output Discharge
	MT8568N(A)	2.5~5.5	3	2.5	18	±2	0.6	٧	٧	٧	20	DFN3x3_10L	Synchronous Step-Down DC/DC Converter
	MT3124	2.5~6	3.5	1.2	15	±1.5	0.6	٧	V	V	1000	QFN2x2_12L	Sync. COT Buck Converter with PG

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	MT8124	2.5~5.5		1.25	20	±0.5	0.6	٧	V	V	20	QFN2x2_12L	Fast-PWM Synchronous Step-Down Converter
	MT3153	2.5~6	3.5	1.5	15	±2	0.6	V	V	٧	240	TSOT23_5L	Sync. COT Buck Converter with PG, Output Discharge
	MT3194N	2.7~6	4	1.2	18	±1	0.6	٧	V	V	65	QFN2x3_12L	Fast-PWM Synchronous Step-Down Converter
	MT8194N	2.7~5.5	4	1.2	20	±1	0.6	V	V	٧	20	QFN2x3_12L	Fast-PWM Synchronous Step-Down Converter
	MT3123 MT3123A MT3123B	2.5~6	4	1.25	15	±1.5	0.6	V	V	V	1000 1000 260	QFN3x3_16L	Sync. COT Buck Converter with PG Sync. COT Buck Converter with PG, SS Sync. COT Buck Converter with PG, SS, Discharge
	MT8123N	2.5~5.5	4	1.25	18	±1	0.6	V	V	٧	20	QFN3x3_16L	Low Iq FAST-PWM Synchronous Step-Down Converter
	MT3068	2.5~6	4	1.5	15	±2	0.6	V	V	V	240	DFN3x3_10L	Sync. COT Buck Converter with PG, Output Discharge
	MT3126	2.5~6	5	1.2	15	±1	0.6	٧	V	٧	1000	QFN2x2_12L	Sync. COT Buck Converter with PG
	MT8126	2.5~5.5	5	1.25	20	±0.5	0.6	٧	V	V	20	QFN2x2_12L	Fast-PWM Synchronous Step-down Converter
0	MT8165A	2.7~5.5	5	1.35	500	±0.5	0.61	٧	V	٧	15	QFN3x4_14L	Fast-PWM Synchronous Step-Down Converter
	MT3035	2.5~6	5	1.5	15	±2	0.6	٧	v	V	240	DFN3x3_10L	Sync. COT Buck Converter with SS, PG
	MT3185	2.7~6	5	2.5	17	±1.0	0.8	٧	V	٧	50	DFN2x2_7L	Fast PWM Synchronous Step-Down Converter with PG
	MT3196N	2.7~6	6	1.2	18	±1	0.6	٧	V	V	65	QFN2x3_12L	Fast-PWM Synchronous Step-Down Converter
	MT8196N	2.7~5.5	6	1.2	20	±1	0.6	٧	V	٧	20	QFN2x3_12L	Fast-PWM Synchronous Step-Down Converter
	MT3127N	2.7~6	6A/10A	1.2	18	±1.0	0.61	٧	V	V	Х	QFN3x3_9L	Sync. FAST PWM Buck Converter with PFM Mode
	MT3127A	2.7~6	6A/10A	1.2	500	±1.0	0.61	٧	V	٧	х	QFN3x3_9L	Sync. FAST Force PWM Buck Converter with Force PWM mode
	MT3128N	2.7~6	6A/8A	1.2	18	±1.0	0.61	٧	V	٧	Х	QFN4x4_20L	Sync. FAST PWM Buck Converter with PFM Mode
	MT3128A	2.7~6	6A/8A	1.2	500	±1.0	0.61	٧	V	٧	х	QFN4x4_20L	Sync. FAST Force PWM Buck Converter with Force PWM mode
0	MT8129A	2.7~5.5	6A/10A	1.2	500	±0.5	0.61	٧	V	V	20	QFN3x4_14L	Fast-PWM Synchronous Step-Down Converter
0	MT8859A	2.7~5.5	6A	1.2	500	±0.5	0.5	٧	V	٧	20	QFN2x3_14L	Fast-PWM Synchronous Step-Down Converter
	MT3125	2.5~6	6	1.25	15	±1	0.6	٧	V	V	1000	QFN3x3_16L	Sync. COT Buck Converter with PG
0	MT8139A	2.7~5.5	6A/10A	2.2	500	±0.5	0.5	٧	V	٧	20	QFN3x4_14L	Fast-PWM Synchronous Step-Down Converter
0	MT8106A	2.7~5.5	6	2.2	500	±0.5	0.61	٧	V	٧	20	QFN3x4_14L	Fast-PWM Synchronous Step-Down Converter

	Part No.	Inpu	h Voltagen	Dut Current Free	(A) ACC	nach (alg)	Max Max	Dury <sup>olo</sup>	it Start OTP	sho	nt Protection Package Intril	<sub>Note</sub> s
	MT3570N(A)	4.7~18	2	500	±2.5	0.8	100	V	V	٧	SOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3770N(A)	4.7~24	2	500	±2.5	0.8	100	٧	V	٧	SOT23_6L DFN2x2_6L	Sync. Buck Converter with Light Load PSM
	MT3622	4.3~24	2	650	±2	0.765	100	V	v	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3682	4.3~24	2	650	±2	0.6	100	V	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3562(A)	4.5~16	2	720	±2	0.804	100	V	V	V	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3552(A)	4.5~18	2	720	±2	0.804	100	V	V	٧	SOT563	Fast-PWM Synchronous Step-Down Converter
	MT3592(A)	4.5~18	2	1500	±2	0.804	100	V	V	٧	SOT563	Fast-PWM Synchronous Step-Down Converter
	MT3510	4.7~18	2.5	500	±2.5	0.6	100	٧	V	٧	SOT23_6L	Sync. Buck Converter with Light Load PSM
0	MT8553(A)(N)	4.5~18	2.5	1500	±2	0.6	100	٧	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3571	4.7~18	3	500	±2.5	0.8	100	٧	V	٧	SOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3713	4.7~24	3	500	±2	0.6	100	٧	V	٧	SOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3771N(A)	4.7~24	3	500	±2.5	0.8	100	٧	V	٧	SOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3623	4.3~24	3	650	±2	0.765	100	٧	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3683	4.3~24	3	650	±2	0.6	100	٧	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3553(A)(N)	4.5~18	3	720	±2	0.804	100	٧	V	٧	SOT563	Fast-PWM Synchronous Step-Down Converter
	MT3563(A)(N)	4.5~18	3	720	±2	0.804	100	٧	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3583(A)(N)	4.5~18	3	720	±2	0.6	100	V	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
0	MT8693A	4~24	3	1400	±1.5	0.6	100	٧	V	٧	SOT23_6L	Fast-PWM Synchronous Step-Down Converter
	MT3515N(A)(U)	4.5~24	3	1400	±1.5	0.8	100	V	V	٧	TSOT23_8L DFN3x3_10L	Fast-PWM Synchronous Step-Down Converter
	MT3593(A)(N)	4.5~18	3	1500	±2	0.804	100	٧	V	٧	SOT563	Fast-PWM Synchronous Step-Down Converter
	MT3513	4.5~18	3.5	500	±2	0.6	90	V	V	٧	TSOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3513A	4.5~18	3.5	500	±2	0.6	90	٧	V	V	TSOT23_6L	Sync. Buck Converter Forced PWM Mode
	MT3503	4.5~18	3.5	1000	±2	0.6	85	V	V	٧	TSOT23_6L	Sync. Buck Converter with Light Load PSM
	MT3503A	4.5~18	3.5	1000	±2	0.6	85	٧	V	٧	TSOT23_6L	Sync. Buck Converter Forced PWM Mode
7	MT3505	4.5~24	4	500	±1.5	0.6	100	٧	V	٧	TSOT23_8L	Fast-PWM Synchronous Step-Down Converter,Iout 5A Peak

			/		(A)					/		
	-70.		ut Voltagel	on Curent	MHZ	Mach (0/0)	1	Duty olo	in Start OTP		or Protection	,
	Par No.	Inpi	it out	Str Kien	, Dec	THE ARE	ASTA MOX	, cc	A STA OTP	Shi	Sugge, Suggest	Motes
	MT3935N (A)	4.3~26	4	500	±2	0.8	100	٧	٧	٧	SOP8_EP DFN4x3_14L	Fast-PWM Synchronous Step-Down Converter- COT UA mode, "A" with COT FPWM mode
	MT3905N (U)(A)(H)	4~30	4	500	±2	0.8	100	V	V	V	SOP8_EP DFN4x3_14L	Fast-PWM sync BUCK converter, lout 5A Peak"U"with ultra sonic mode, "A" with Forced PWM mode, "H" with ultra sonic mode + Vo short Hiccup mode
	MT3901N (X)(U)	4~36	5	180	±2	0.8	100	٧	V	٧	SOP8_EP	Sync. Buck Converter with Dual-Channel Current limit "N" With CC foldback, "X" Without CC foldback,"U" With CC foldback + Ultra-sonic mode at light load
0	MT3991N(U)	4~36	5	180	±2	0.8	100	V	V	V	SOP8_EP	Synchronous Step-down Converter with Programmable Current Limit
	MT3931U	4.3~26	5	200	±2	0.8	100	V	٧	٧	SOP8_EP	Fast-PWM Synchronous Step-Down Converter- COT UA mode
	MT3931A	4.3~26	5	200	±2	0.8	100	٧	V	V	SOP8_EP	Fast-PWM Synchronous Step-Down Converter- COT FPWM mode
	MT3906	4.2~28	6	560	±1	0.6	100	٧	٧	٧	QFN3x3_16L	Fast-PWM Synchronous Step-Down Converter
	MT3916	4.2~28	6	560	±1	0.6	100	V	V	V	QFN3x3_16L	Fast-PWM Synchronous Step-Down Converter for Fast Transient Response
0	MT3886MFFR	4.5~33	6	700	±1	0.604	100	V	V	٧	QFN2X3_12L	Fast-PWM Synchronous Step-Down Converter
0	MT3956N (A)(U)	3~18	6	720	±1	0.8	100	V	V	٧	QFN3x3_16L	Fast-PWM Synchronous Step-Down Converter
0	MT3968N (A)(U)	3~18	8	700	±1	0.6	100	V	V	٧	QFN3x3_16L	Fast-PWM Synchronous Step-Down Converter
0	MT3998MQDR MT3998MFAR	3~28	8	Adj. 200K~ 1.2MHz	±1	0.6	100	V	V	V	QFN4x4_20L QFN3x3_16L	Fast-PWM Synchronous Step-Down Converter for Fast Transient Response
	MT3902U	4~36	4/CH	180	±2	0.8	100	٧	٧	٧	QFN5x5_20L	Dual Buck Converter with Quad-Channel Current limit With CC foldback + Ultra-sonic mode at light load
	MT3902X	4~36	4/CH	180	±2	0.8	100	٧	V	V	QFN5x5_20L	Dual Buck Converter with Quad-Channel Current limit Without CC foldback + Ultra-sonic mode at light load

#### Specific LDO

884 NO.	Inpu	E Voltage N	Put Curren	a MHZ ACC	uracy (0/0)	Onto April Onto April 1986 on	Diobo	ut Invi	Sh	ort Protection	dB) Packac	ge (mm) Audes
MT7110	2.5~5.5	250	1	±2	÷	Fixed 1.2V, 1.65V, 1.8V, 2.5V and 3.3V	150@100mA 250@200mA	٧	V	80/10Hz 68/100Hz	SOT23_5L	250mA Low Iq 1uA LDO
MT7107	2.5~5.5	250	12	±2	æ	Fixed 0.9V,1.05V, 1.1V,1.2V,1.5V, 1.8V,2.5V, 2.8V.3V, 3.3V	60@100mA 120@200mA	٧	٧	80/100Hz 50/100KHz	SOT23_5L DFN1x1_4L	250mA high PSRR Low Dropout Voltage Regulator
MT7113	1~5.5	3000	140	±1.5	0.8	ADJ	150@2A 250@3A	٧	V	80/1KHz	SOP8_EP DFN3x3_10L	3A Ultra Low Dropout voltage Regulator

#### DDR TERMINATION

Pat No.	Inf	Jut Voltage <sup>©</sup>	Jim Ranger	anger (un	orte Suk Chres	it from out has lacked have	curacy 50ft 25tage	estap stage Buffe	red ce Prince Prince	EFOUT)	OSEM	10/5	Skstart	UK OCG Package	kotes
MT7217	3.3	0.4~3.5	0.5~0.9	2	±1%	S3	S4/S5	+/-10mA	10uF	٧	V	V	V	DFN2x2_10L	Meets DDR DDR2 JEDEC Specifications; Support DDR3 and Low Power DDR3/DDR4 VTT BusTermination

	Pat No.	Inf	Jut Voltage of	Rating to	Current	neds on	Faul	t OVP	Clamping	gho!	Circuit OTE	2 Sucke	Rote's
	MT7255	2.7~6	30	3	50	٧	х	٧	V	V	V	SOT23_3L DFN2x2_8L	Over-Voltage and Over-Current Protection IC, Output Discharge
	MT7692	1.8~5.5	6.5	4	26,48	٧	Х	٧	٧	V	٧	DFN1.2x1.6_4L SOT23_5L	Low Ron Power Distribution load switch, Output Discharge
	MT7693	1.8~5.5	6.5	4	26,48	V	х	٧	٧	V	٧	DFN1.2x1.6_4L SOT23_5L	Low Ron Power Distribution load switch (Reverse Blocking Function allows VOUT be higher than VIN in shutdown)
0	MT7633	2.7~5.5	6.5	4	40	٧	٧	٧	٧	V	٧	TSOT23_6L	Load Switch with 28V Output Reverse Block & Adjustable Current limit, Fast Role Swap
	MT7201	2.7~18	20	5	25	٧	Х	٧	٧	V	٧	DFN3x3_10L	Programmable Current Limit Load Switch with Clamping Output Voltage, Output Discharge
	MT7201A	2.7~18	20	5	25	٧	٧	٧	V	V	٧	DFN3x3_10L	Programmable Current Limit Load Switch with Clamping Output Voltage
	MT7203	4.5~18	20	5	25	٧	Х	٧	V	V	٧	DFN3x3_10L	Load Switch with Over-voltage Protection and Blocking FET Control, Clamping Output Voltage, Output Discharging
	MT7256	2.7V~6	30	5	50	٧	Х	٧	V	V	٧	DFN2x2_8L	Over-Voltage and Over-Current Protection IC, Output Discharging
	MT7281	3~24	28	5	35	٧	٧	٧	V	V	٧	QFN4x4_20L	Unidirectional 5A Load Switch with True Reverse Blocking and Fast Role Swap
	MT7282	3~24	28	5	35	٧	٧	٧	V	V	٧	QFN4x4_20L	28V Bidirectional 5A Load Switch
0	MT7262	3~21	30	6	Х	V	٧	٧	٧	V	٧	DFN2x2_8L	21V Bidirectional 6A Load Switch

#### Current Limit Switch With IEC/UL Safety approvals (IEC/UL 62368-1)

Pat No.	Inti	utvoltage.W	x Rating IV	Put Current	neds on	40	dik Ow	PClamping	short	Circuit Rotection	S Sactage	<sub>Rote</sub> s
MT7231	3~24	28	6	24	٧	٧	٧	V	٧	٧	QFN2.5x3.2_16L	28V Unidirectional 6A Load Switch with True Reverse Blocking and Fast Role Swap
MT7232	3~24	28	6	24	V	V	V	V	V	٧	QFN2.5x3.2_16L	28V Bidirectional 6A Load Switch

#### Multi Channel Power Management IC

New product

	Pat No.	Inpu	C Voltage	d (MHZ)	t Current l	A) Out	ntur) Dut Voltar	inschloloj Selaj	SUN ER	, [0/0] M2	ox Duty <sup>olo</sup>	ort Protect	sport Paddage 1	Hote's
0	MT8293	2.5~5.5	1.25	3 x 2CH	500	Vadj	±0.5	0.6	93	100	V	٧	DFN4x3_14L	Dual Sync COT Buck Converter with Light Load FPWM
	MT3222	2.5~6	1.5	2.5 x 2CH	38	Vadj	±1.5	0.6	95	100	٧	٧	TSOT23_8L	Dual Sync COT Buck Converter with Light Load PSM
	MT3223	2.5~6	1.5	3 x 2CH	38	Vadj	±1.5	0.6	95	100	V	٧	DFN3x3_10L	Dual Sync COT Buck Converter with Light Load PSM
	MT3253	2.5~6	2.5	2.5 x 2CH	38	Vadj	±1.5	0.6	93	100	٧	V	DFN2.5x1.5_8L	Dual Sync COT Buck Converter with Light Load PSM
	MT3263	2.5~6	2.5	2.5 x 2CH	38	Vadj	±1.5	0.6	93	100	V	V	DFN2.5x1.5_8L	Dual Sync COT Buck Converter with Light Load PSM With Deep Sleep Function

#### Lithium I<sub>ON</sub> Battery Charger

Say Mo.	Input	Voltage!	eating W Output	Current	uracy (o)o	charge Mod	<sup>ૄ</sup> /હે	IINO.	the hur	JT OVP	hy) off Start	TP OUP Short	klote <sup>5</sup>
MT2575	4.5~6.5	20	1.5	±1	٧	Linear	1	Adj	6.6	٧	٧	QFN3x3_16L	1 Cell Linear Charger Auto Input Current Limit Foldback for USB Port and Adapter Integrated Dynamic Power Path Management
MT2580	4.5~6.5	20	1.6	±1	V	Linear	1		6.6	V	V	SOP8_EP	1 Cell Linear Charger Auto Input Current Limit Foldback for USB Port and Adapter
MT2000	4.5~15	20	3	±1	V	PWM 1.5MHz	1	7hr	6.6 16.5	V	V	QFN4x4_20L	1 Cell Sync. Switching Charger with Power Path Control Dynamic Power Management
MT2001	4.5~15	20	3	±1	٧	PWM 1.5MHz	1	7hr	6.6 16.5	V	V	QFN4x4_20L	1 Cell Sync. Switching Charger
MT2011	4.5~6.5	20	2	±1	٧	PWM 1.5MHz	1		6.7/14	V	V	SOP8_EP	1 Cell Sync. Switching Charger Built In Reverse Current Blocking Diode
MT9528	4~6	18	ICHG=2A lout=3A	±0.75	V	PMW 500KHz	2	8hr	٧	V	V	QFN4x4_20L	500KHz Boost Charger for 2-Cell (2A) Li-Ion Battery with Reverse Buck Converter

#### Super Capacitor Power Manager for Backup Power Applications

Sature Institution was sating in Onther Carental Interior of the Care in Saturation of											
MT2600	2.5~5.5	12	2	2	6	V	V	DFN3x3_10L	Super Capacitor Power Manager for Backup Power Applications		
MT2601N	2.5~5.5	18	2	2	6	٧	V	DFN3x3_10L	Super Capacitor Power Manager for Backup Power Applications		
MT2601B	2.5~5.5	18	2	2	6	V	V	DFN3x3_10L	Super Capacitor Power Manager for Backup Power Applications (w/o Automatic Cell Balancing)		

#### Ideal Diode

8st No.	Inpl	t voltage W	Rating W Outs	ut Current (A) Fast Turn of the Current Fast Turn of the Current	jrse it oth	Package (trim)		Hote <sup>s</sup>
MT7235	2.7~24	28	5	V		DFN2x3_8L	Very Low Forward	d Voltage Diode,Surge up to 28V

#### Type-C CC and SBU pin ESD & High Voltage Short Protection Function

Partino Input Jostage IN Our Clamping IN CC   CC apil four displayed Out De Pacitage Infini											
MT7538	0~24	28	٧	V	V	QFN3x3_16L	Type-C CC and SBU pin Over-Voltage and IEC ESD Protection Switch				
MT7530 MT7531	0~24	28	V	v x	V	QFN3x3_20L	Type-C CC and SBU pin Over-Voltage and IEC ESD Protection Switch				

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