



Analog & Control

Product selection manual

2026.Q1-Jan



Motor Driver

- DC Motor Driver
- Step Motor Driver
- BLDC Motor Driver

Linear Regulator

- LV LDO
- HV LDO

Switching Regulator

- Buck Converter

Battery Management

- Linear Charger
- Switching Charger

Power Devices

- Trench MOSFET
- SGT MOSFET
- IPM

Voltage	100V	45V	36V	32V	18V	14V	10.8V	7.2V
Gate Driver	XTP2600 6N, 1.2A/2A	XTP2610 3P+3N						
STEP Motor Driver		XTM5813 1.75A XTM5841 1.75A	XTM5549 1A XTM5800 1.1A		XTM5833 1.4A XTM5001 1.5A XTM5004 1.5A XTM5809 0.5A XTM5847 1.4A XTM5002 1.5A XTM5808 0.5A XTM5810 0.5A	XTM5803 0.5A		
DC Motor Driver		XTM4840 3.5A	XTM4002 3.5A XTM4877 1.6A XTM4100 1A XTM4101 1A	XTM4870 1.6A	XTM4001 7A XTM4837 1.5A XTM4208 0.5A XTM4220 1.5A XTM4119 0.5A XTM4512 0.5A	XTM4129 3.5A	XTM4608 1.6A XTM4126 1.5A XTM4127 1.8A XTM4128 2A	XTM4606 1A XTM4607 1.2A XTM4116 1.3A XTM4207 1.2A XTM4117 1.2A XTM4118 1.2A

Mass Production

Under Development

Under Planning

Core	
M0	XTM7302xx : • 32-bit ARM Cortex-M0 • CORDIC unit for trigonometric calculation • wide supply voltage range: 1.8 V to 5.5 V • up to 200 Kbytes Flash program and data memory • Single MCU or with Built in Gate Driver • 24pin to 40pin packages
M33	XTM7332xx : • 32-bit ARM Cortex-M33 • Up to 180MHz Arm Cortex-M33 with DSP and FPU • wide supply voltage range: 1.8 V to 3.6 V • up to 256 Kbytes Flash program and data memory • Single MCU or with Built in Gate Driver • 32pin to 100pin packages

Mass Production

Under Development

Under Planning

Voltage\Current	150mA	300mA	500mA	600mA	1A
45V	XTP2401 High VIN Voltage Low Iq 6uA				
18V			XTP2201 Ultra Low Iq 1.8uA		
12V			XTP2101 Ultra Low Iq 3.5uA		
8V			XTP2001 Ultra Low Iq 0.8uA		
5V		XTP2021 Ultra Low Iq 1uA XTP2037 Ultra High PSRR 92dB	XTP2038 PSRR 75dB, Iq 15uA	XTP2036 PSRR 77dB, Iq 50uA	XTP2039 Low Dropout

Mass Production

Under Development

Under Planning

Switching Regulator -- DC/DC Buck Converter

Integrity, Innovation, Persistence, Excellence

Voltage\Current	1A	2A	3A	4A	5A
65V	XTP8511 2.2MHz, Buck	XTP8521 2.2MHz, Buck	XTP8531 2.2MHz, Buck		
36V				XTP8341 500KHz, Buck	
17V	XTP8211 600KHz, Buck, Ultra Low Iq	XTP8221 600KHz, COT, Buck	XTP8231 600KHz, COT, Buck		XTP8251 560KHz, Buck
5V	XTP8001 1.5MHz, Buck	XTP8002 1.5MHz, Buck XTP8012 2MHz, Buck	XTP8003 1.5MHz, Buck		

Mass Production

Under Development

Under Planning

Battery Management -- Charger

Integrity, Innovation, Persistence, Excellence

Voltage	Two Cell	Single Cell
36V		XTB1055 1.2A, Linear, I2C ctrl, Power Path Management XTB1052 1.2A, Linear
28V		XTB1051 1A, Linear XTB1053 1A, Linear XTB1056 1A, Linear XTB1058 1A, Linear XTB1059 1A, Linear FT4065H 0.8A, Linear FT4066H 0.8A, Linear FT4067H 0.8A, Linear, NTC FT4068H 0.8A, Linear, EN
20V	XTB22202 2A, Switching, Boost	XTB21203 3A, Switching, I2C ctrl
9V	XTB12512 1.2A, Linear	XTB21525 2.5A, Switching, Buck

Mass Production

Under Development

Under Planning

Voltage	IPM	SGT MOSFET	Trench MOSFET
600V	XTM61N0561 5A , LasSOP-10 XTM61M0261 3A , LasSOP-10 XTM61M0461 4A , LasSOP-10 XTM61M0761 7A , LasSOP-10		
100V		BRP100N120P8 120A , TO220FB-3L BRP100N245P6 245A , TOLL-8L BRP100N220P6 220A , TOLL-8L	
80V		BRP80N120P8 120A , TO220FB-3L BRP80N240P6 240A , TOLL-8L	
40V		BRP40N210P2 210A , PDFN5*6-8L	BRT40N60P3 60A , TO252-2L BRT40N100P2 100A , PDFN5*6-8L BRT40N210P2 210A , PDFN5*6-8L BRT40P40P1 -40A , PDFN3*3-8L
30V			BRT30N70P3 70A , TO252-2L BRT30N70P1 70A , PDFN3*3-8L BRT30N100P3 100A , TO252-2L BRT30N180P2 180A , PDFN5*6-8L BRT30P70P1 -35A , PDFN3*3-8L BRT30P60P1 -60A , PDFN3*3-8L

Mass Production

Under Development

Under Planning

Part Number	No. CH	VM(V)	Iout(A)/Ipeak(A)	Iq(uA)	Rds(ON)(Ω)	Ctrl mode	Protection	Package	Status	Competitive products
XTM4001	1	2~18	7.0/14.0	0.1	0.05	IN/IN	UVLO/TSD/OCP	ESOP8	MP	RZ7886/TMI8260/SA8336/SS6285
XTM4002	1	4.5~36	3.5/6.0	0.2	0.16	IN/IN	UVLO/TSD/OCP	ESOP8	UD	SA8543
XTM4100	1	4~36	1.2/2.8	0.1	0.7	IN/IN	UVLO/TSD/OCP	SOT23-6/SOP8	UD	
XTM4101	1	4~36	1.2/2.8	0.1	0.7	PH/EN	UVLO/TSD/OCP	SOT23-6/SOP8	UD	
XTM4116	1	1.8~7.5	1.3/2.2	0.1	0.6	IN/IN	UVLO/TSD/OCP	SOT23-6/SOP8	MP	TMI8118(S)/TC118/SA8301/SA116
XTM4117	1	2.4~7.2	1.2/2.0	0.1	0.59	IN/IN	UVLO/TSD	DFN8-2*2/SOP8	MP	SA8310
XTM4118	1	2.4~7.2	1.2/2.0	0.1	0.59	IN/IN	UVLO/TSD	SOT23-6/SOP8	MP	TMI8118(S)/TC118
XTM4119	1	2.4~18	0.5/0.8	0.1	2.0	IN/IN	UVLO/TSD	SOT23-6	MP	TMI8118/MX116
XTM4126	1	2~10.8	1.5/2.2	0.2	0.45	IN/IN	UVLO/TSD/OCP	SOP8	MP	MX08H/MX612/MX618
XTM4127	1	2~10.8	1.8/3.2	0.2	0.43	IN/IN	UVLO/TSD/OCP	DFN8-2*2	MP	8837系列

UD = Under Development

MP = Mass Production

Part Number	No. CH	VM(V)	Iout(A)/Ipeak(A)	Iq(uA)	Rds(ON) (Ω)	Ctrl mode	Protection	Package	Status	Competitive products
XTM4128	1	2~10.8	2.0/3.0	0.2	0.43	IN/IN	UVLO/TSD/OCP	ESOP8	MP	MX08H/MX612/MX618
XTM4129	1	2.4~12	3.5/6.0	0.2	0.14	IN/IN	UVLO/TSD/OCP	ESOP8	UD	SA8321
XTM4207	1	1.8~7.5	1.2/2.2	0.1	0.62	IN/IN	UVLO/TSD/OCP	SOT23-6	MP	MS3111/TMI8113
XTM4208	1	2.4~18	0.5/0.8	0.1	2.0	IN/IN	UVLO/TSD	SOP8/SOT23-6	MP	MX6208/D6208/LK6208
XTM4220	1	3.7~18	1.5/2.3	0.3	0.53	IN/IN PH/EN	UVLO/TSD/OCP	DFN8-2*2	MP	DRV8220
XTM4512	1	2.4~18	0.5/0.8	0.1	2.0	PH/EN	UVLO/TSD	SOT23-6	MP	AP1511B
XTM4606	2	1.8~7.5	1.0/2.2	0	0.24	IN/IN	UVLO/TSD	SOT23-6	MP	SA607
XTM4607	2	2.4~9.0	1.2/2.2	0	0.16	IN/IN	UVLO/TSD	SOT23-6	MP	MX607
XTM4608	2	1.8~12	1.6/2.8	0.2	0.12	IN/IN	UVLO/TSD	SOT23-6	MP	MX607

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Part Number	No. CH	VM(V)	Iout(A)/Ipeak(A)	Iq(uA)	Rds(ON) (Ω)	Ctrl mode	Protection	Package	Status	Competitive products
XTM4837	1	3.7~18	1.5/2.3	0.3	0.53	IN/IN	UVLO/TSD/OCP	DFN8-2*2/ ESOP8/SOP8	MP	8837系列
XTM4840	1	5~48	3.5/6.0	5	0.15	IN/IN	UVLO/TSD/OCP	eTSSOP28	UD	DRV8840
XTM4870	1	4.2~32	1.8/3.5	1	0.4	IN/IN	UVLO/TSD/OCP	ESOP8	UD	DRV8870/TMI8870
XTM4877	1	4.5~36	1.8/3.5	2	0.45	IN/IN	UVLO/TSD/OCP	eTSSOP16/ QFN3*3-16	UD	DRV8876/TMI8876
XTM5001	2	3.7~18	1.4/2.3	0.6	0.53	IN/IN	UVLO/TSD/OCP	SSOP10/MSOP10	MP	A3909/MS3142
XTM5002	2	3.7~18	1.4/2.3	0.6	0.53	IN/IN	UVLO/TSD/OCP	DFN2*3-12	UD	DRV8835
XTM5004	2	3.7~18	1.4/2.3	0.6	0.56	IN/IN	UVLO/TSD/OCP	ESOP8	MP	
XTM5800	2	4.2~36	1.1/2.2	0.3	0.9	PWM	UVLO/TSD/OCP	eTSSOP16/QFN3*3- 16	UD	DRV8428
XTM5803	8	2.4~14	0.5	0.1	1.6	IN/IN	UVLO/TSD	SSOP24/ QFN4*4-24	MP	ULN2803L
XTM5808	8+1	2.7~18	0.5	0.1	1.7	IN/IN	UVLO/TSD	SOP16/ QFN4*4-16	MP	MX2208A

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MP = Mass Production

Part Number	No. CH	VM(V)	Iout(A)/Ipeak(A)	Iq(uA)	Rds(ON)(Ω)	Ctrl mode	Protection	Package	Status	Competitive products
XTM5809	8+1	2.7~18	0.5	0.1	1.7	IN/IN	UVLO/TSD	QFN4*4-16/ QFN3*3-16	MP	
XTM5810	8+1	2.7~18	0.5	0.1	1.7	I2C	UVLO/TSD/OCP	QFN4*4-16/ QFN3*3-16	UD	
XTM5813	2	5~48	1.8/3.5	3	0.25	IN/IN	UVLO/TSD/OCP	eTSSOP28	UD	DRV8813
XTM5833	2	1.65~18	1.4/2.5	0.3	0.5	IN/IN	UVLO/TSD/OCP	eTSSOP16/ QFN4*4-16/QFN3*3-16	MP	8833系列
XTM5841	2	5~48	1.8/3.5	3	0.25	IN/IN	UVLO/TSD/OCP	eTSSOP28	UD	DRV8841
XTM5847	2	1.65~18	1.4/2.5	0.3	0.5	IN/IN	UVLO/TSD/OCP	eTSSOP16/ QFN3*3-16	MP	DRV8847
XTM5549	2	4~36	1.2/2.8	0.2	0.7	PH/EN	UVLO/TSD/OCP	ESOP8/SSOP10	UD	8549系列

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Part Number	Vs(V)	Power voltage (V)	Input Logic	I _{HO+} /I _{HO-} (A)	I _{LO+} /I _{LO-} (A)	V _{CCUV+} /V _{CCUV-} (V)	V _{BUY+} /V _{BUY-} (V)	dead-time (ns)	Straight-through prevention	Type	Package	Status
XTM2600	100	5.5~18	HIN,LIN	1.2/2.0	1.2/2.0	4.2/3.8	3.8/3.5	500	√	6N	TSSOP20/ QFN24-4*4	MP
XTM2610	-	5.5~45	HIN,LIN	0.27/0.05	0.055/0.29	5.0/4.5	-	100	√	3P+3N	SOP16	MP

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Part Number	Core	Frequency (MHz)	Flash (KB)	SRAM (KB)	Package	Voltage (V)	Temperature (°C)	Status
XTM7302xx	Cortex-M0	32	200	16	QFN/SSOP	1.8~5.5	-40~105	MP
XTM7332xx	Cortex-M33	180	256	64	QFN/LQFP	1.8~3.6	-40~105	UD

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Part Number	Vin(V)	Iout max (mA)	Vout(V)	Accuracy	IQ(μA)	PSRR@1kHz (dB)	Vdrop (mV)	Functions	Package	Status
XTP2021	1.8 to 5.5	300	0.9V,1.05V,1.2V, 1.5V,1.8V, 1.9V, 2.5V, 2.7V, 2.8V, 2.85V, 2.9V,3.0V, 3.3V	±2%	1	75	135	Ultra-low IQ	DFN1x1-4L SOT23-5	MP
XTP2036	1.7 to 6	600	1.2V,1.5V,1.8V,2.8V,3.3V,ADJ	±2%	50	75	460	High PSRR	SOT23-5	MP
XTP2038	1.8 to 5.5	500	0.9V,1.05V,1.2V,1.5V,1.8V,1.9V, 2.5V,2.7V,2.8V,2.85V,2.9V,3.0V, 3.3V,3.6V,4V,5V and ADJ	±2%	15	77	120	High PSRR	DFN1x1-4L SOT23-5	MP
XTP2037	1.8 to 5.5	300	0.9V,1.05V,1.2V,1.5V,1.8V,1.9V,2.5V, 2.7V,2.8V,2.85V,2.9V,3.0V,3.3V,3.6V, 4V,5Vand ADJ	±2%	21	92	88	Ultra-High PSRR Low Noise	DFN1x1-4L SOT23-5	UD
XTP2001	1.8 to 8	500	1.2V,1.8V,2.5V,2.8V,3.3V,3.6V,4.0V, 5.0V	±2%	0.8	70	100	Ultra-low IQ	SOT89-3	UD
XTP2101	2 to 12	500	1.2V,1.8V,2.5V,2.8V,3.3V,3.6V,4.0V, 5.0V	±1%	3.5	65	150	High Accuracy Ultra-low IQ	SOT89-3 SOT23-5	MP
XTP2201	3 to 18	500	0.9V,1.05V,1.2V,1.5V,1.8V,2.5V, 2.7V,2.8V,3.0V,3.3V,3.6V,4.0V,4.4V, 5.0V	±1%	1.8	77	125	High Accuracy Ultra-low IQ	SOT89-3 SOT23-5	MP
XTP2401	2.7 to 45	150	1.8V,3.3V,5.0V,12V	±2%	6	40	650	High Voltage Low IQ	SOT89-3	MP

UD = Under Development

MP = Mass Production

Part Number	Vin(V)	Iout max (A)	Switching Frequency (MHz)	FB(V)	HS_FET (mΩ)	LS_FET (mΩ)	Functions	Package	Status
XTP8001AS2CT	2.7 to 5.5	1	1.5	0.6	380	250	PWM/PFM mode	SOT23-5	MP
XTP8002AS2CT	2.7 to 5.5	2	1.3	0.6	140	80	PWM/PFM mode	SOT23-5	MP
XTP8002AD9CT	2.7 to 5.5	2	1.3	0.6	140	80	PWM/PFM mode	DFN6-1.6*1.6	MP
XTP8003AS2CT	2.7 to 5.5	2.5	1.5	0.6	100	70	PWM/PFM mode	SOT23-5	MP
XTP8012AS2CT	2.5 to 5.5	2	2	0.6	160	80	PWM/PFM mode	SOT23-5	MP
XTP8221DS3CT	4.5~17	2	0.6	0.6	116	67	PWM/PFM mode	SOT23-6	UD
XTP8231CS3CT	4.5~17	3	0.6	0.6	91	58	PWM/PFM mode	SOT23-6	MP
XTP8251AS3CT	4.5~18	5	0.56	0.8	45	25	PWM/PFM mode	SOT23-6	UD
XTP8531AT3CT	4.5~65	3.5	0.3~2.2	0.8	-	-	PCM mode	ESOP-8L	UD

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■ Battery Management - Li-ON Battery Charger

Integrity, Innovation, Persistence, Excellence

Part Number	VIN(max) (V)	Power Supply(V)	VBAT(V)	Charge Current(A)	Ctrl Interface	OVP(V)	Topology	Accuracy	NTC	Package	Status	Competitive products
XTB1051	28	4.55~6.1	4.2	1	Standalone	6.8	Linear	1%	-	DFN8-3*3	MP	LP4073
XTB1053	28	4.55~6.1	4.2	1	Standalone	6.8	Linear	1%	-	DFN8-2*2	MP	CJ4056
XTB1056	28	4.55~6.1	4.2/4.35	1	Standalone	6.8	Linear	1%	-	DFN8-2*2 ESOP8	MP	TPB4056/SY8602/S GM4056
XTB1058	28	4.55~6.1	4.2/4.35	1	Standalone	6.8	Linear	1%	√	DFN8-2*2 ESOP8	MP	
XTB1059	28	4.55~6.1	4.2	1	Standalone	6.8	Linear	1%	√	ESOP8	MP	4056系列
FT4065H	28	4.55~6.1	4.2	0.8	Standalone	6.8	Linear	1%	-	SOT23-5	MP	LP4068
FT4066H	28	4.55~6.1	4.2	0.8	Standalone	6.8	Linear	1%	-	SOT23-6	MP	
FT4067H	28	4.55~6.1	4.2	0.8	Standalone	6.8	Linear	1%	√	SOT23-6	MP	
FT4068H	28	4.55~6.1	4.2	0.8	Standalone	6.8	Linear	1%	-	SOT23-6	MP	
XTB12512	9	4.5~5.5	8.4	1.2	Standalone	6	Linear	1%	√	ESOP8	MP	
XTB22202	20	4.5~5.5	8.4	2	Standalone	6	Switch	0.5%	√	ESOP8	MP	
XTB21525	9	4.5~5.5	4.2	2.5	Standalone	6	Switch	0.5%	√	DFN8-3*3	MP	

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Part Number	V _{DS} (V)	V _{GS} (V)	I _D (A)	R _{DS(ON)} (mΩ)(V _{GS} =10V)	R _{DS(ON)} (mΩ)(V _{GS} =4.5V)	V _{TH} (V)	C _{iss} (pF)	C _{oss} (pF)	C _{rss} (pF)	Q _g (nC)	Package	Status
BRT30N70P3	30	±20	70	4.0	6.1	1.6	1899	221	191	34	TO-252-2L	MP
BRT30N70P1	30	±20	70	4.0	6.1	1.6	1899	221	191	34	PDFN3*3-8L	MP
BRT30N100P3	30	±20	100	2.6	3.7	1.6	2789	365	309	58	TO-252-2L	MP
BRT30N180P2	30	±20	180	1.7	2.8	1.8	5093	629	508	97	PDFN5*6-8L	MP
BRT30P35P1	-30	±20	-35	7.6	10.9	-1.7	2252	306	222	41	PDFN3*3-8L	MP
BRT40N60P3	40	±20	60	5.6	7.0	1.6	2396	162	138	48	TO-252-2L	MP
BRT40N100P2	40	±20	100	2.4	3.0	1.5	6152	487	313	111	PDFN5*6-8L	MP
BRT40N210P2	40	±20	210	1.35	1.7	1.7	11390	770	621	95	PDFN5*6-8L	MP
BRT40P40P1	-40	±20	-40	8.3	10.2	-1.5	3639	311	247	69	PDFN3*3-8L	UD
BRT30P60P1	-30	±20	-60	5.0	7.3	-1.5	3366	471	324	57	PDFN3*3-8L	UD

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Part Number	V _{DS} (V)	V _{GS} (V)	I _D (A)	R _{DS(ON)} (mΩ) (VGS=10V)	R _{DS(ON)} (mΩ) (VGS=4.5V)	V _{TH} (V)	Ciss(pF)	Coss(pF)	Crss(pF)	Qg(nC)	Package	Status
BRP80N120P8	80	±20	120	4.4	-	3.0	3650	1870	120	-	TO220FB-3L	MP
BRP80N240P6	80	±20	240	1.2	-	3.0	13700	8100	570	-	TOLL-8L	MP
BRP100N120P8	100	±20	120	3.4	-	3.0	6000	2950	275	-	TO220FB-3L	MP
BRP100N220P6	100	±20	220	1.3	-	3.0	12600	4800	320	-	TOLL-8L	MP
BRP100N245P6	100	±20	245	1.0	-	3.0	14000	5300	353	-	TOLL-8L	MP
BRP40N210P2	40	±20	210	0.76	-	1.8	6600	2800	200	100	PDFN5*6-8L	UD

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Part Number	V _{IN} (V)	I _D (A)	I _{QVCC} (uA)	I _{QVBST-SW} (uA)	R _{DS(ON)} (Ω)	V _{FSD} (V)	V _{CED} (V)	T _{rr} (ns)	Package	Status
XTM61N0561	600	5	150	30	-	-	1.5	130	LasSOP-10	MP
XTM61M0261	600	3	150	30	3.2	1.4	-	100	LasSOP-10	MP
XTM61M0461	600	4	150	30	2.0	1.5	-	100	LasSOP-10	MP
XTM61M0761	600	7	150	30	1.6	1.5	-	110	LasSOP-10	MP

UD = Under Development

MP = Mass Production

Industrial & Medical

- Surveillance
- G/W/E-Meter
- Power Tools
- E-POS
- Printer
- Pump & Draught Fan
- Industrial Control
- Medical & Cosmetic D



Smart Home

- Smart Door Lock
- Sweeping Robot
- Projector
- Massage Device
- Home Appliance
- Small UAV
- Intelligent Access Control



Consumer

- Wearable Device
- Electrical Toy
- Electrical Toothbrush
- Bluetooth Headset
- E-cigarette



Comm. & PC

- WIFI Router
- PON
- Optical Module
- Mobile Phone
- Tablet
- SSD
- Notebook PC & Server
- USB Hub





Thank you !

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