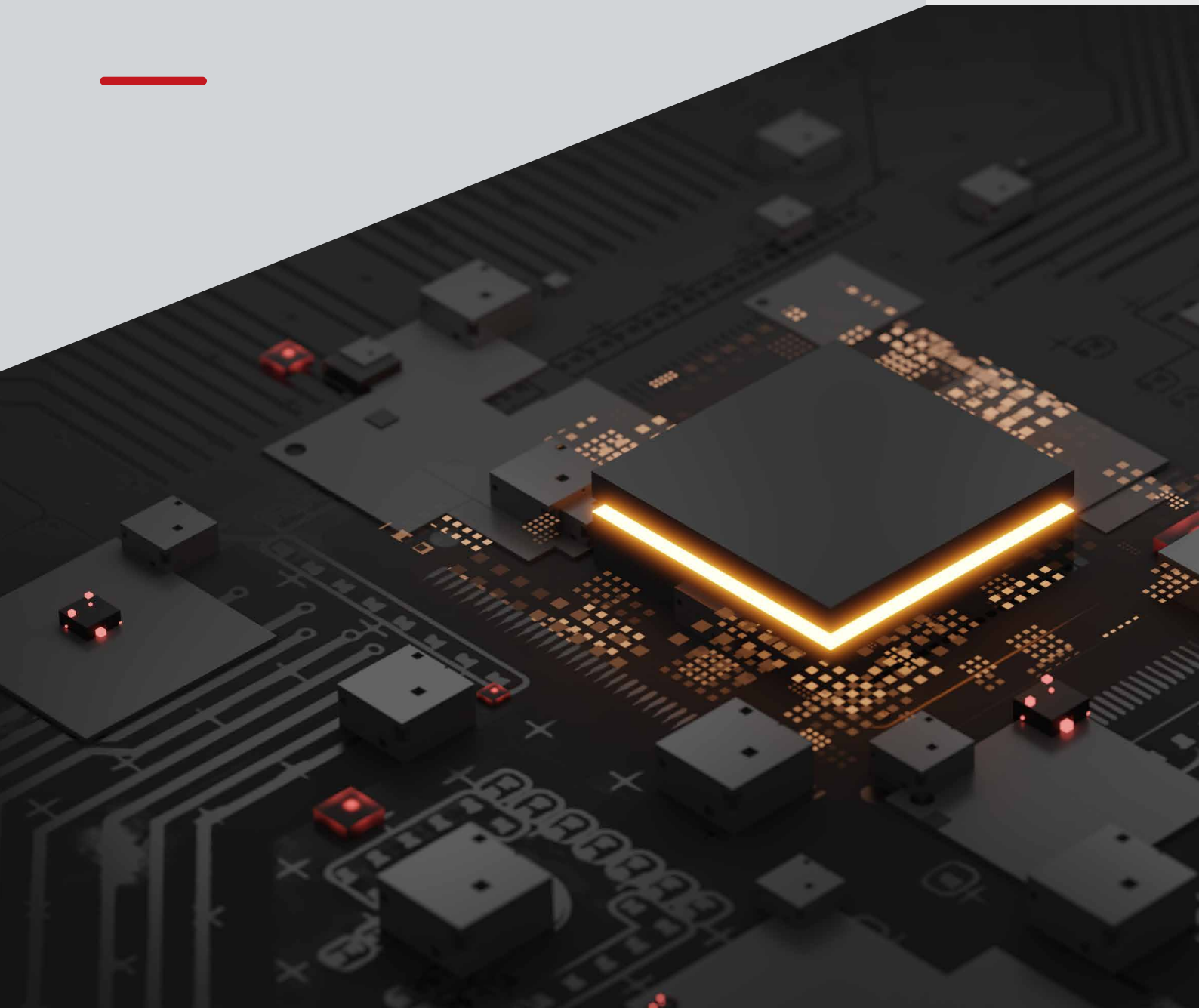


# ITG SEMI GROUP SELECTION GUIDE

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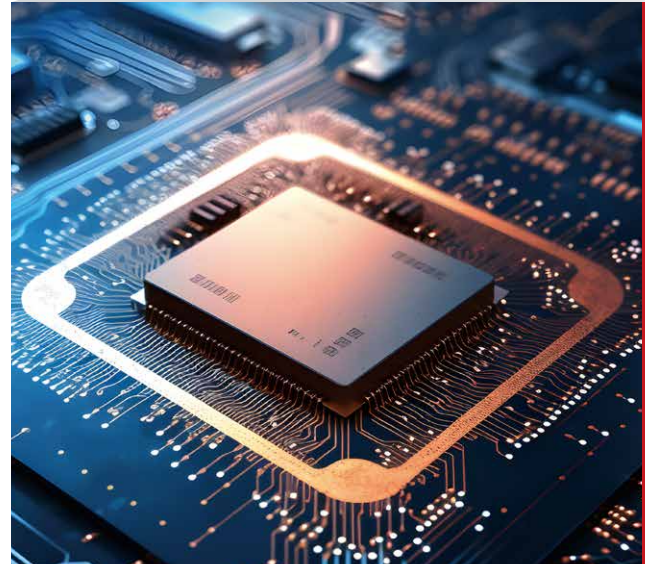
## ITG SEMI GROUP PTE. LTD.

ITG SEMI GROUP is a Singapore based semiconductor company focuses on research, development, and IC/Semiconductor device/solution sales.

Strategically partnered with top virtual IDM design houses, foundries, and investment firms, ITG delivers products based on ITG-owned proprietary BCD process to worldwide customers.

ITG's product portfolio has 600+ products, the major product categories include power analog, signal chains, mixed-signal analog front-ends, and embedded processors. The applications cover a broad range of industry sectors including computing, Automotive, industrial, renewable energy, Telecom and PE markets etc.

As a R&D focused company, ITG continues to invest in talented design team and build own patent portfolio.



### Goal & Vision

—

To be the Asia-leading and world-class analog semiconductor company.

### Mission

—

ITG is committed to delivering high-performance, high-quality, and high-reliability integrated circuit (IC) products and providing cutting-edge solutions to enable customers' success.

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# Switching DCDC Power Supply

Step-down Converter VIN Max <10V

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>SW</sub> (kHz)	Soft Start	Power Good	Light Load	Sync	Control Method
ITG5711	WLCSP8	1	2.5~5.5	0.3	1.2~3.3	0.36	1000	Internal	N	PFM	Y	COT
ITG5711A	WLCSP8	1	2.5~5.5	0.3	0.7~3.1	0.36	1000	Internal	N	PFM	Y	COT
ITG5716	DFN3×2-12	2	2.5~5.5	0.3	0.7~3.3	0.36	1000	Internal	Y	PFM	Y	COT
ITG5710	DFN3×2-12	2	3.3~10	0.4	1.8~3.3	0.4	1000	Internal	Y	PFM	Y	COT
ITG5715	DFN3×2-12	2	3.3~10	0.4	1.8~3.3	0.4	1000	Internal	Y	PFM	Y	COT
ITG5712	WLCSP8	1	2.3~5.5	0.6	1.2~3.3	0.36	1200	Internal	N	PFM	Y	COT
ITG5712A	WLCSP8	1	2.3~5.5	0.6	0.7~3.1	0.36	1200	Internal	N	PFM	Y	COT
ITG5717	DFN3×2-12	2	2.3~5.5	1.2	0.7~3.3	0.36	1000	Internal	Y	PFM	Y	COT
ITG5250A	SOT23-5	1	2.7~6	1	0.6	40	1500	Internal	N	PFM	Y	COT
ITG5250S	SOT23-5 / SOT563	1	2.7~6	1	0.6	40	1500	Internal	N	PFM	Y	COT
ITG5291	SOT563	1	2.7~6	1	0.6	40	1500	Internal	N	PFM	Y	COT
ITG5291P	SOT563	1	2.7~6	1	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5291F	SOT563	1	2.7~6	1	0.6	40	1500	Internal	N	FCCM	Y	COT
ITG5291PF	SOT563	1	2.7~6	1	0.6	40	1500	Internal	Y	FCCM	Y	COT
ITG5256	SOT23-5	1	2.7~6	1.2	0.6	40	1500	Internal	N	PFM	Y	COT
ITG5211	SOT23-5 / SOT23-6	1	2.5~6	1.2	0.6	50	1500	Internal	Y	PFM	Y	PCM
ITG5262C	SOT23-5 / SOT23-6	1	2.6~6	1.5	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5262CM	SOT23-5 / SOT23-6	1	2.6~6	1.5	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5262CF	SOT23-5 / SOT23-6	1	2.6~6	1.5	0.6	40	1500	Internal	N/Y	FCCM	Y	COT
ITG5231	SOT23-5 / SOT23-6	1	2.5~5.5	1.5	0.6	50	1500	Internal	Y	FCCM	Y	PCM
ITG5217	DFN2×2-8	1	2.5~6	2	0.45	30	2000	Internal	Y	PFM	Y	COT
ITG5292	SOT563	1	2.7~6	2	0.6	47	1850	Internal	N	PFM	Y	COT
ITG5292P	SOT563	1	2.7~6	2	0.6	47	1850	Internal	Y	PFM	Y	COT
ITG5292F	SOT563	1	2.7~6	2	0.6	47	1850	Internal	N	FCCM	Y	COT
ITG5292PF	SOT563	1	2.7~6	2	0.6	47	1850	Internal	Y	FCCM	Y	COT
ITG5223	SOT23-5 / SOT23-6	1	2.5~6	2	0.6	40	1500	Internal	Y	PFM	Y	PCM
ITG5252	SOT23-5 / TSOT23-8 / SOT23-6	1	2.5~6	2	0.6	60	1000	Internal	Y	PFM	Y	COT
ITG5262N	SOT23-5 / SOT23-6	1	2.6~6	2	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5262NM	SOT23-5 / SOT23-6	1	2.6~6	2	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5262	SOT23-5 / SOT23-6	1	2.7~6	2.5	0.6	40	1000	Internal	Y	PFM	Y	COT
ITG5262L	SOT23-5 / SOT23-6	1	2.7~6	2.5	0.6	40	1000	Internal	Y	PFM	Y	COT
ITG5222N	SOT23-6	1	2.5~6	2.5	0.6	60	1000	Internal	Y	PFM	Y	PCM
ITG5222R	SOT23-6	1	2.5~6	2.5	0.6	60	1000	Internal	Y	PFM	Y	PCM
ITG5213H	DFN 2×2-8	1	2.5~6	3	0.6	50	1000	Internal	Y	PFM	Y	PCM
ITG5213L	DFN 2×2-8	1	2.5~6	3	0.6	50	1000	Internal	Y	PFM	Y	PCM
ITG5263SH	DFN 2×2-8	1	2.5~6	3	0.6	50	1000	Internal	Y	PFM	Y	COT
ITG5263SL	DFN 2×2-8	1	2.5~6	3	0.6	50	1000	Internal	Y	PFM	Y	COT
ITG5219	QFN1.5×1.5-7	1	2.5~5.5	3	0.6	65	1500	Adjustable	N	FCCM	Y	COT
ITG5219P	QFN1.5×1.5-7	1	2.5~5.5	3	0.6	65	1500	Internal	Y	PFM	Y	COT
ITG5293	SOT563	1	2.7~6	3	0.6	40	1500	Internal	N	PFM	Y	COT
ITG5293P	SOT563	1	2.7~6	3	0.6	40	1500	Internal	Y	PFM	Y	COT
ITG5293F	SOT563	1	2.7~6	3	0.6	40	1500	Internal	N	FCCM	Y	COT
ITG5293PF	SOT563	1	2.7~6	3	0.6	40	1500	Internal	Y	FCCM	Y	COT
ITGH5280	DFN2×2-7	1	2.5~6	3	0.8	40	2000	Internal	Y	PFM	Y	COT
ITG5255A	DFN3×3-10	1	2.5~5.5	5	0.6	60	1000	Adjustable	Y	PFM	Y	COT
ITG5265	DFN3×3-10	1	2.5~5.5	5	0.6	60	1000	Adjustable	Y	PFM	Y	COT
ITG5265F	DFN3×3-10	1	2.5~5.5	5	0.6	60	1000	Adjustable	Y	FCCM	Y	COT
ITGH5276	QFN3×3-16	1	2.95~7	6	0.6	210	400~2400	Adjustable	Y	FCCM	Y	COT

## Step-down Converter VIN Max &gt;10V

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>O</sub> (uA)	F <sub>SW</sub> (kHz)	Soft Start	Power Good	Light Load	Sync	Control Method
ITG5033C	SOT23-6	1	4.5~18	2	0.8	100	700	Internal	N	PFM	Y	PCM
ITG5052C	SOT23-6	1	4.5~18	2	0.6	100	700	Internal	N	PFM	Y	PCM
ITG5059TC	SOT23-6	1	4.5~18	2	0.765	150	600	Internal	N	PFM	Y	COT
ITG5059TF	SOT23-6	1	4.5~18	2	0.765	150	600	Internal	N	FCCM	Y	COT
ITG5092	TSOT23-6 / SOT563	1	3.7~18	2	0.8	120	800	Internal	N	PFM	Y	PCM
ITG5352	SOT23-6	1	4.5~18	2	0.6	140	600	Internal	N	PFM	Y	COT
ITG5352H	SOT23-6	1	4.5~18	2	0.6	140	1140	Internal	N	PFM	Y	COT
ITG5352HF	SOT23-6	1	4.5~18	2	0.6	140	1140	Internal	N	FCCM	Y	COT
ITG5352HM	SOT23-6	1	4.5~18	2	0.6	140	1140	Internal	N	PFM	Y	COT
ITG5352M	SOT23-6	1	4.5~18	2	0.6	140	600	Internal	N	PFM	Y	COT
ITG5359	SOT23-6	1	4.5~18	2	0.765	140	600	Internal	N	PFM	Y	COT
ITG5359M	SOT23-6	1	4.5~18	2	0.765	140	600	Internal	N	PFM	Y	COT
ITG5359F	SOT23-6	1	4.5~18	2	0.765	140	600	Internal	N	FCCM	Y	COT
ITG5359FM	SOT23-6	1	4.5~18	2	0.765	140	600	Internal	N	FCCM	Y	COT
ITG5360	DFN2x2-6	1	4.5~18	2	0.6	140	600	Internal	N	PFM	Y	COT
ITG5092A	SOT563	1	4.5~18	2	0.8	140	600	Internal	N	PFM	Y	COT
ITG5092H	SOT563	1	4.5~18	2	0.8	140	1000	Internal	N	PFM	Y	COT
ITG5092AF	SOT563	1	4.5~18	2	0.8	140	600	Internal	N	FCCM	Y	COT
ITG5362H	SOT563	1	4.5~18	2	0.6	150	1200	Internal	N	PFM	Y	COT
ITG5362HF	SOT563	1	4.5~18	2	0.6	150	1200	Internal	N	FCCM	Y	COT
ITG5392	SOT563	1	4.5~18	2	0.8	150	600	Internal	N	PFM	Y	COT
ITG5392F	SOT563	1	4.5~18	2	0.8	150	600	Internal	N	FCCM	Y	COT
ITG5392H	SOT563	1	4.5~18	2	0.8	150	1200	Internal	N	PFM	Y	COT
ITG5392HF	SOT563	1	4.5~18	2	0.8	150	1200	Internal	N	FCCM	Y	COT
ITG5357	SOT23-6	1	4.5~18	3	0.6	150	600	Internal	N	PFM	Y	COT
ITG5357M	SOT23-6	1	4.5~18	3	0.6	150	600	Internal	N	PFM	Y	COT
ITG5357H	SOT23-6	1	4.5~18	3	0.6	150	1140	Internal	N	PFM	Y	COT
ITG5357HF	SOT23-6	1	4.5~18	3	0.6	150	1140	Internal	N	FCCM	Y	COT
ITG5357HM	SOT23-6	1	4.5~18	3	0.6	150	1140	Internal	N	PFM	Y	COT
ITG5061TC	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	PFM	Y	COT
ITG5061TF	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	FCCM	Y	COT
ITG5361	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	PFM	Y	COT
ITG5361M	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	PFM	Y	COT
ITG5361F	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	FCCM	Y	COT
ITG5361FM	SOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	FCCM	Y	COT
ITG5361H	SOT23-6	1	4.5~18	3	0.765	150	1200	Internal	N	PFM	Y	COT
ITG5361HM	SOT23-6	1	4.5~18	3	0.765	150	1200	Internal	N	PFM	Y	COT
ITG5361HF	SOT23-6	1	4.5~18	3	0.765	150	1200	Internal	N	FCCM	Y	COT
ITG5361HFM	SOT23-6	1	4.5~18	3	0.765	150	1200	Internal	N	FCCM	Y	COT
ITG5040	SOT563 / TSOT23-6	1	3.8~18	3	0.8	120	500	Internal	N	PFM	Y	PCM
ITG5040C	SOT23-6	1	4.5~16	3	0.8	100	500	Internal	N	PFM	Y	PCM
ITG5057C	SOT23-6	1	4.5~16	3	0.6	100	500	Internal	N	PFM	Y	PCM
ITG5058S	SOT23-6	1	4.5~18	3	0.6	150	1000	Internal	N	PFM	Y	COT
ITG5093	SOT563	1	4.5~18	3	0.8	140	600	Internal	N	PFM	Y	COT
ITG5371	TSOT23-6	1	4.5~18	3	0.765	150	600	Internal	N	PFM	Y	COT
ITG5371F	TSOT23-6	1	4.5~18	3	0.8	150	600	Internal	N	FCCM	Y	COT
ITG5393C	SOT563	1	4.5~18	3	0.8	150	600	Internal	N	PFM	Y	COT
ITG5393CF	SOT563	1	4.5~18	3	0.8	150	600	Internal	N	FCCM	Y	COT
ITG5393	SOT563	1	4.5~18	3	0.8	150	600	Internal	N	PFM	Y	COT
ITG5393F	SOT563	1	4.5~18	3	0.8	150	600	Internal	N	FCCM	Y	COT
ITG5393H	SOT563	1	4.5~18	3	0.8	150	1200	Internal	N	PFM	Y	COT
ITG5393HF	SOT563	1	4.5~18	3	0.8	150	1200	Internal	N	FCCM	Y	COT
ITG5363H	SOT563	1	4.5~18	3	0.6	150	1200	Internal	N	PFM	Y	COT

## Step-down Converter VIN Max &gt;10V

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>o</sub> (uA)	F <sub>sw</sub> (kHz)	Soft Start	Power Good	Light Load	Sync	Control Method
ITG5363HF	SOT563	1	4.5~18	3	0.6	150	1200	Internal	N	FCCM	Y	COT
ITG5363F	SOT563	1	4.5~18	3	0.6	150	600	Internal	N	FCCM	Y	COT
ITGH5042	QFN3.5×3.5-14	1	4.5~18	3	0.8	380	187~1300	Adjustable	Y	FCCM	Y	PCM
ITG5062T	TSOT23-6 / TSOT23-8	1	4~18	4	0.765	260	600	Internal	Y	PFM	Y	COT
ITG5062TF	TSOT23-6 / TSOT23-8	1	4~18	4	0.765	260	600	Internal	Y	FCCM	Y	COT
ITG5372	TSOT23-6	1	4.5~18	4	0.765	150	600	Internal	N	PFM	Y	COT
ITG5372F	TSOT23-6	1	4.5~18	4	0.765	150	600	Internal	N	FCCM	Y	COT
ITG5394	SOT563	1	4.5~18	4	0.8	150	600	Internal	N	PFM	Y	COT
ITG5394F	SOT563	1	4.5~18	4	0.8	150	600	Internal	N	FCCM	Y	COT
ITG5056	TSOT23-6	1	4.5~18	5	0.76	130	560	Internal	N	PFM	Y	COT
ITG5056F	TSOT23-6	1	4.5~18	5	0.76	130	560	Internal	N	FCCM	Y	COT
ITG5305	ESOP8	1	4.5~18	5	0.765	130	580	Internal	Y	PFM	Y	COT
ITG5305F	ESOP8	1	4.5~18	5	0.765	130	580	Internal	Y	FCCM	Y	COT
ITG5066	TSOT23-6	1	4.5~18	6	0.76	130	560	Internal	N	PFM	Y	COT
ITG5066F	TSOT23-6	1	4.5~18	6	0.76	130	560	Internal	N	FCCM	Y	COT
ITG5306	ESOP8	1	4.5~18	6	0.765	130	580	Internal	Y	PFM	Y	COT
ITG5306F	ESOP8	1	4.5~18	6	0.765	130	580	Internal	Y	FCCM	Y	COT
ITGH5046	QFN3.5×3.5-14	1	4.5~17	6	0.6	380	210~1770	Adjustable	Y	FCCM	Y	PCM
ITGH5083	QFN3.5×3.5-18	1	4.5~17	8	0.6	580	400/800/1200	Adjustable	Y	FCCM	Y	COT
ITGH5084	QFN3.5×3.5-18	1	4.5~17	12	0.6	580	400/800/1200	Adjustable	Y	FCCM	Y	COT
ITGH5085A	QFN3×4-21	1	2.7~16	12	0.6	620	700/800/1000	Adjustable	Y	FCCM	Y	COT
ITGH5084H	QFN3.5×3.5-18	1	4.5~17	14	0.6	580	400/800/1200	Adjustable	Y	FCCM	Y	COT
ITGH5086A	QFN3×4-21	1	2.7~16	16	0.6	550	700/800/1000	Adjustable	Y	FCCM	Y	COT
ITGH5087A	QFN3×4-21	1	2.7~16	20	0.6	550	700/800/1000	Adjustable	Y	FCCM	Y	COT
ITGH5087AW	QFN3×4-19	1	2.7~16	20	0.6	550	700/800/1000	Adjustable	Y	FCCM	Y	COT
ITG5017F	SOT23-6	1	4.5~26	1.2	0.8	40	1200	Internal	N	FCCM	Y	PCM
ITG5017S	SOT23-6	1	4.5~26	1.2	0.8	40	1200	Internal	N	PFM	Y	PCM
ITG5027	SOT23-6	1	3.8~24	2	0.8	120	1400	Internal	N	PFM	Y	PCM
ITG5031S	TSOT23-6	1	3.7~23	2	0.8	120	800	Internal	N	PFM	Y	PCM
ITG5071	SOT23-6	1	4.5~28	2	0.6	120	600	Internal	N	PFM	Y	PCM
ITG5057S	TSOT23-6	1	4~24	3	0.6	220	500	Internal	N	PFM	Y	COT
ITG5060T	TSOT23-6 / TSOT23-8	1	4~24	3	0.765	260	800	Internal	Y	Selectable	Y	COT
ITG5060TF	TSOT23-6	1	4~24	3	0.765	260	800	Internal	N	FCCM	Y	COT
ITG5065	TSOT23-8	1	4~24	3	0.8	260	450	Internal	N	Selectable	Y	COT
ITG5069A	QFN3×3-20	1	4~23	6	0.6	45	500	Internal	Y	PFM	Y	COT
ITG5069C	QFN3×3-20	2	5.5~23	6	5.1	36	600	Internal	Y	PFM	Y	COT
ITG5169BS	QFN2.5×2.5-16	2	4~23	6	3.35V	40	600	Internal	Y	PFM/USM	Y	COT
ITG5186AU	QFN2.5×2.5-16	1	4~23	6	0.6	45	500	Internal	Y	PFM/USM	Y	COT
ITG5186DU	QFN2.5×2.5-16	1	4~23	6	0.6	45	500	Internal	Y	PFM/USM	Y	COT
ITG5186CU	QFN2.5×2.5-16	2	5.5~23	6	5.1	36	600	Internal	Y	PFM/USM	Y	COT
ITG5188AU	QFN2.5×2.5-16	1	4~23	8	0.6	45	500	Internal	Y	PFM/USM	Y	COT
ITG5168BS	QFN2.5×2.5-16	2	4~23	8	3.35V	40	600	Internal	Y	PFM/USM	Y	COT
ITG5188DU	QFN2.5×2.5-16	1	4~23	8	0.6	45	500	Internal	Y	PFM/USM	Y	COT
ITG5188CU	QFN2.5×2.5-16	2	5.5~23	8	5.1	36	600	Internal	Y	PFM/USM	Y	COT
ITG5138A	UQFN3×3-23	1	4.5~23	8	0.6	80	500	Internal	Y	PFM/USM	Y	COT
ITG5138D	UQFN3×3-23	1	4.5~23	8	0.6	80	500	Internal	Y	PFM/USM	Y	COT
ITG5138B	UQFN3×3-23	2	4.5~23	8	3.35	80	500	Internal	Y	PFM/USM	Y	COT
ITG5138C	UQFN3×3-23	2	5.5~23	8	5.1	80	500	Internal	Y	PFM/USM	Y	COT
ITG5068A	QFN3×3-20	1	4~23	8	0.6	45	500	Internal	Y	PFM	Y	COT
ITG5068C	QFN3×3-20	2	5.5~23	8	5.1	36	600	Internal	Y	PFM	Y	COT
ITG5079A	QFN3×3-20	1	4~23	10	0.6	45	500	Internal	Y	PFM	Y	COT
ITG5079C	QFN3×3-20	2	5.5~23	10	5.1	36	600	Internal	Y	PFM	Y	COT
ITG5110	SOT23-6 / DFN2×3-8	1	4.5~46	0.2	0.8	26	-	Internal	Y	PFM	Y	HYS

## Step-down Converter VIN Max &gt;10V

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>SW</sub> (kHz)	Soft Start	Power Good	Light Load	Sync	Control Method
ITG5018	SOT23-6	1	4.7~40	0.6	0.8	40	2000	Internal	N	PFM	Y	PCM
ITG5018B	SOT23-6	1	4.7~40	0.6	0.8	40	800	Internal	N	PFM	Y	PCM
ITG5026	SOT23-6	1	4.7~40	1	0.8	40	1100	Internal	N	FCCM	Y	PCM
ITG5015A	ESOP8	1	3.6~40	2	0.8	65	440	Internal	N	PFM	Y	PCM
ITG5116F	ESOP8/ SOP8	1	4.7~40	3	0.8	65	100~700	Internal	N	PFM	N	PCM
ITGH5102A	QFN3×2-12	1	4~36	2	0.8	45	410	Internal	Y	PFM	Y	PCM
ITGH5102B	QFN3×2-12	1	4~36	2	0.8	45	1000	Internal	Y	PFM	Y	PCM
ITGH5102C	QFN3×2-12	1	4~36	2	0.8	45	2100	Internal	Y	PFM	Y	PCM
ITGH5102CSF	QFN3×2-12	1	4~36	2	0.8	45	2100	Internal	Y	FCCM	Y	PCM
ITGH5103AS	QFN3×2-12	1	4~36	3	0.8	45	410	Internal	Y	PFM	Y	PCM
ITGH5103BS	QFN3×2-12	1	4~36	3	0.8	45	1000	Internal	Y	PFM	Y	PCM
ITGH5103CS	QFN3×2-12	1	4~36	3	0.8	45	2100	Internal	Y	PFM	Y	PCM
ITGH5103CSF	QFN3×2-12	1	4~36	3	0.8	45	2100	Internal	Y	FCCM	Y	PCM
ITG5117S	ESOP8	1	4.5~45	5	0.75	180	100~2000	Adjustable	N	PFM	N	PCM
ITG5117	DFN4×4-10	1	4.5~45	5	0.8	180	100~2000	Adjustable	Y	PFM	N	PCM
ITG5117C	ESOP8	1	4.5~45	5	0.8	180	100~2000	Internal	N	PFM	N	PCM
ITG5126	SOT23-6 / DFN2×3-8	1	4.5~65	0.2	0.8	26	-	Internal	Y	PFM	Y	HYS
ITG9520	ESOP8	1	4.5~65	1	0.8	130	100~2000	Internal	Y	PFM	N	PCM
ITG5121	ESOP8	1	4.5~65	2	0.8	130	100~2000	Internal	Y	PFM	N	PCM
ITGH5123	DFN4×4-10	1	4.5~65	3.5	0.8	180	100~2000	Adjustable	Y	PFM	N	PCM
ITGH5123S	ESOP8	1	4.5~65	3.5	0.75	180	100~2000	Adjustable	N	PFM	N	PCM
ITGH5123P	ESOP8	1	4.5~65	3.5	0.75	180	100~2000	Internal	Y	PFM	N	PCM
ITGH5125	DFN4×4-10	1	4.8~65	5	0.8	180	100~2000	Adjustable	Y	PFM	N	PCM
ITGH5125S	ESOP8	1	4.5~65	5	0.75	180	100~2000	Adjustable	N	PFM	Y	PCM
ITGH5125C	ESOP8	1	4.5~65	5	0.8	180	100~2000	Internal	N	PFM	N	PCM
ITGH5140	DFN4×4-8 / ESOP8	1	6~100	0.6	1.225	100	100~1000	Internal	N	PFM	Y	COT
ITGH5140F	DFN4×4-8 / ESOP8	1	6~100	0.6	1.225	100	100~1000	Internal	N	FCCM	Y	COT
ITGH5141	DFN4×4-8 / ESOP8	1	6~100	1	1.225	100	100~1000	Internal	N	PFM	Y	COT
ITGH5141F	DFN4×4-8 / ESOP8	1	6~100	1	1.225	100	100~1000	Internal	N	FCCM	Y	COT
ITG5142	ESOP8	1	6~100	1.5/2.5	1.225	20	300	Internal	N	PFM	N	COT
ITG5142P	ESOP8	1	6~100	1.5/2.5	1.225	20	100~600	Internal	Y	PFM	N	COT
ITG5143	ESOP8	1	6~100	1.5/3.5	1.225	20	300	Internal	N	PFM	N	COT
ITG5143P	ESOP8	1	6~100	1.5/3.5	1.225	20	100~600	Internal	Y	PFM	N	COT

## Step-up Converter

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>SUB</sub> (V)	Max. Switch Current (A)	I <sub>Q</sub> (uA)	V <sub>FB</sub> (V)	F <sub>SW</sub> (kHz)	Type
ITG5522	SOT563	1	0.7~5.5	2.2~5.5	-	3.6	30	0.6	1000	Sync. Converter
ITG5702	WCSP, DFN2×2-6, SOT563	1	0.9~5.5	2.5~5.5	-	1	0.7	1	no fixed	Sync. Converter
ITG5702B	WCSP, DFN2×2-6, SOT563	1	0.9~5.5	2.5~5.5	-	0.8	0.7	1	no fixed	Sync. Converter, Quick Transient Response
ITG5520S	QFN2×2-14	1	1.2~5	2.5~5.5	-	9	30	1.2	600	Sync. Converter
ITG5701A	DFN1.5×1.5-6	2	1.2~5.5	3.3	3 (LDO)	0.5	0.7	-	no fixed	Sync. Converter+LDO
ITG5701B	DFN1.5×1.5-6	2	1.2~5.5	3.3	2.8 (LDO)	0.5	0.7	-	no fixed	Sync. Converter+LDO
ITG5701E	DFN1.5×1.5-6	2	1.2~5.5	3	ON (Load Switch)	0.5	0.7	-	no fixed	Sync. Converter+Load Switch
ITG5701F	DFN1.5×1.5-6	2	1.2~5.5	3.3	ON (Load Switch)	0.5	0.7	-	no fixed	Sync. Converter+Load Switch
ITG5701G	DFN1.5×1.5-6	2	1.2~5.5	5	ON (Load Switch)	0.5	0.7	-	no fixed	Sync. Converter+Load Switch
ITG5520SA	QFN2×2-14	1	1.2~5.5	2.5~5.5	-	9	30	1.2	600	Sync. Converter
ITG5523	VQFN2×2-7	1	1.2~5.5	2.5~5.5	-	9	30	1.2	600	Sync. Converter, Load Disconnect, SCP
ITG5530	SOT23-6	1	1.8~5.5	2.5~5.5	-	2	100	0.8	no fixed	Sync. Converter, Load Disconnect, SCP
ITG5513	QFN3×3-20	1	2.6~20	up to 20	-	15	70	1	300~2000	Sync. Converter
ITGH5513	QFN3×3-20	1	2.8~20	up to 20	-	15	80	1	400~2000	Sync. Converter
ITG5510	QFN3×4-15	1	3~20	4~20	-	10	65	0.9	400	Sync. Converter



## Buck-Boost

P/N	Package	V <sub>IN</sub> (V)	V <sub>out</sub> (V)	I <sub>Q</sub> (μA)	F <sub>SW</sub> (kHz)	V <sub>FB</sub> (V)	Current Limit (A)	Interface	Integrated FET
ITG3651	QFN3×4-15	3~21	0.9~20	50	450	0.9	7	No	Yes
ITG3702	QFN4×4-32	3~24	2.4~24	30	300~500	1.2	13	I2C	No

## Controller

P/N	Package	Topology	V <sub>IN</sub> (V)	V <sub>out</sub> (V)	I <sub>Q</sub> (μA)	F <sub>SW</sub> (kHz)	V <sub>FB</sub> (V)	Features
ITGH6344A	QFN3.5×4.5-20	Buck	6~65	0.8~Dmax·VIN	600	100~740	0.8	Light Load Selectable(PFM/FCC)
ITGH6346A	QFN3.5×4.5-20	Buck	6~100	0.8~Dmax·VIN	600	100~740	0.8	Light Load Selectable(PFM/FCC) MOSFET Gate Driver Voltage Selectable(7.5V/10V)

## Isolated DCDC

P/N	Package	Topology	V <sub>IN</sub> (V)	Max Power (W)	R <sub>DS(ON)</sub> (Ω)	F <sub>MAX</sub> (kHz)	Soft Start	Features
ITG3510	SOT23-5	Flyback	3~42	6	0.5	430	Internal	Opto-Free, EN control
ITGH3515	QFN4×4-8 / SOP8 / MSOP8	Flyback	17~75	6	2.1	1MHz	Internal	Internal Error Amplifier, Integrated 200V Power Switch Circuit, Startup Circuit
ITGH3516	DFN5×6-8	Flyback	17~75	20	0.7	1.5MHz	Internal	Internal Error Amplifier, Integrated 200V Power Switch Circuit, Startup Circuit
ITGH3530	QFN4×4-24	Active Clamp Forward	18~75	300	External	External Setting	Programmable	Support Voltage Mode, Current Mode
ITGH5581	SOIC8	Boost, Flyback	9~30	External	External	500	Programmable	Current mode PWM controller

## Power Module

P/N	Package	V <sub>IN</sub> (V)	I <sub>out</sub> (A)	I <sub>Q</sub> (μA)	F <sub>SW</sub> (kHz)	V <sub>FB</sub> (V)	Function	Soft Start	Power Good	Light Load	Isolated
ITGM9102	QFN2.5×3.5x1.6	2.9~6	2	850	2000	0.6	Step-down	Internal	Y	FCCM	N
ITGM9103A	QFN2.5×3.5x1.6	2.9~6	3	850	2000	0.6	Step-down	Internal	Y	FCCM	N

## LNB Power Supply

P/N	Package	Protocol	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	22kHz Tone Signal	Programmable Current Limit	Cable Compensation
ITG4002	ESOP8	DiSEqC 1.x	8~14	0.55	14.2/19.3	External	-	Y
ITG4005	ESOP8 TSOT23-6	DiSEqC 1.x	4.5~14	1	13.5/18.5/14.5/19.5 13.5/18.5	External	Y -	Y N
ITG4005H	TSOT23-6	DiSEqC 1.x	4.5~14	0.6	14.1/19.2	External	-	Y

## DC Input Lighting Product

P/N	Package	Topology	V <sub>IN</sub> (V)	Switch Current Limit	Frequency	Dimming	Sync
ITG1120	TSOT23-6	Buck	4.5~20	1.7A (Max Duty)	1MHz	PWM / Analog	Y
ITG1123	SOT23-6	Buck	4.5~28	2A	600KHz	PWM	Y
ITG1125	SOT23-6	Buck	4.5~28	2A	1MHz	PWM	Y
ITG1130H	ESOP8 / SOT23-6	Buck / Boost / Buck-Boost	4.5~40	2A peak	Constant 2us toff	PWM / Analog	N
ITG11A0	ESOP8	Buck	15~100	/	300KHz	N	N

# Vcore Power

## Multi-phase Controller

P/N	Package	Rail Number	Phase Number	Min Input Voltage(V)	Max Input Voltage(V)	Min Fsw (kHz)	Max Fsw (kHz)	Interface
ITGH6374	QFN5×5-40	2	8	3.15	3.6	10	1000	PMBus/I2C
ITGH6375	QFN5×5-40	2	8	3.15	3.6	10	1000	VR14/13.HC/13
ITGH6396	QFN6×6-48	2	6	3.15	3.6	10	1000	IMVP9.1/9

## DrMOS

P/N	Package	Min Input Voltage(V)	Max Input Voltage(V)	Min Fsw (kHz)	Max Fsw (kHz)	Typical Current Limit(A)	PWM Logic Voltage(V)
ITGH7060	LGA5×6-41	3	16	100	1000	75	3.3
ITGH7067	TLGA5×6-41	3	16	100	1500	75	3.3
ITGH7030	QFN3×5-21	4.5	22	100	1500	60	3.3

# ACDC Power Supply

## ACDC Synchronous Rectifier

P/N	Package	Breakdown Voltage (V)	R <sub>ds(on)</sub> (mΩ)	V <sub>OUT</sub> (V)	Output Current (A)	Supported Operation Mode
ITG7700A	SOP8	40	15	5	2.4	DCM, QR
ITG7700EC	SOP8	40	20	5	2	DCM, QR
ITG7703D	SOP8	45	10	5	3	DCM, QR
ITG7707F	SOP8	50	7	5	3.4	DCM, QR
ITG7707D	SOP8	60	10	5~12	3	DCM, QR
ITG77216	SOP8	60	10	3~12	3	CCM, CrCM, DCM, QR
ITG77186B	SOP8	60	13	3~12	3	CCM, CrCM, DCM, QR
ITG77198B	SOP8	80	15	5~15	2.4	CCM, CrCM, DCM, QR
ITG77218	SOP8	80	10	3~15	3	CCM, CrCM, DCM, QR
ITG77218B	SOP8	85	20	3~15	2	CCM, CrCM, DCM, QR
ITG77218C	SOP8	85	15	3~15	2.4	CCM, CrCM, DCM, QR
ITG7719A	SOP8	100	10	5~20	3	CCM, CrCM, DCM, QR
ITG7721AH	SOP8	100	10	3~20	3	CCM, CrCM, DCM, QR
ITG7726B	SOT23-6	140	External	3~20	-	High Frequency; CCM, CrCM, DCM, QR,ACF
ITG7726BL	SOT23-6	150	External	3~20	-	CCM, CrCM, DCM, QR,ACF
ITG7726BH	SOT23-6	150	External	3~20	-	High Frequency; CCM, CrCM, DCM, QR,ACF
ITG7726H	SOT23-6	150	External	3~20	-	CCM, CrCM, DCM, QR,ACF,AHB

## ACDC Flyback PWM IC

P/N	Package	Max Power (W)	PSR/SSR	Type	MOSFET Rating (V)	R <sub>ds(on)</sub> (Ω)	F <sub>MAX</sub> (kHz)	Features	Standby Power (mW)
ITG1520AH	SOP8	12	PSR	QR	650	4.8	85	CC/CV:±5%	<75
ITG1510PA	DIP7	18	SSR	Fixed Frequency	1200, Si	6(typ)	100	-	<75
ITG1520B	SOP8	18	PSR	QR	650	2.5	85	CC/CV:±5%	<75
ITG1520D	SOP8	18	PSR	QR	650	2.5	85	CC/CV:±5%	<75
ITG1513A	SOP8	20	SSR	Fixed Frequency	650, Si	1.5(max)	70	-	<75
ITG1518HCD	DIP7	20	SSR	Fixed Frequency	800, Si	3.95(max)	100	-	<75
ITG1566CD	DFN5×6-7	25	SSR	QR	650, GaN	1.2(max)	120	-	<75
ITG1566B	DFN5×6-7	33	SSR	QR	650, GaN	0.8(max)	170	-	<75
ITG1566A	DFN5×6-7	45	SSR	QR	650, GaN	0.48(max)	170	-	<75
ITG1565	DFN6×8	120	SSR	QR	650, GaN	0.26(max)	170	-	<75
ITG1515HA	SSOP10	150	SSR	QR	External GaN	External GaN	170	-	<75
ITG1518L	SOT23-6	150	SSR	Fixed Frequency	External	External	65	-	<75
ITG1516	SSOP10	150	SSR	QR	External	External	130	-	<75
ITG1550	QFN4×4-20	200	SSR	ACF	External	External	External Setting	-	<75
ITG1556	QFN4×4-20	300	SSR	AHB	External	External	External Setting	Protection: Auto-recovery	<75
ITG1556B	QFN4×4-20	300	SSR	AHB	External	External	External Setting	Protection:Latch	<75

## ACDC Half Bridge IC

P/N	Package	Max Power (W)	Type	MOSFET Rating (V)	R <sub>ds(on)</sub> (Ω)	F <sub>MAX</sub> (kHz)	VCC Quiescent Current (mA)	Application
ITG1568K	DFN6×8	180	Half Bridge Driver with GaN	650, GaN	0.22(typ)	2000	0.15	AHB,ACF,LLC and other Half/Full Bridge Application

## PFC Controller

P/N	Package	Max Power (W)	F <sub>MAX</sub> (kHz)	External OTP	2nD OVP	Loop Compensation	Mode
ITG1571	SOP8	300	130kHz	Yes	Yes	Internal	CRM
ITG1572	SOP8	300	130kHz	No	Yes	External	CRM

## Offline Buck Regulator

P/N	Package	MOSFET BV (V)	R <sub>DSon</sub> (Ω)	I <sub>OUT</sub> (mA)	V <sub>OUT</sub> (V)	Frequency (kHz)	Standby Power (mW)
ITG1530	SOT23-3	700	15	200	5	30	<30
ITG15307	SOP8	700	15	200	5	30	<30
ITG1532N5	SOP8	650	30	150	5	40	<30
ITG1532M5	SOP8	650	25	300	5	40	<30
ITG1531O	SOP8	External	External	2000	3~150	-	<150
ITG1531B	SOP7	500	5	600	3~150	-	<75
ITG1531M	SOP7	500	15	250	3~150	-	<50
ITGB1536NC	ASOP7	500	20	200	3.3	30	<30
ITGB1536AC	ASOP7	500	17	300(450mA pulse)	3.3	30	<30
ITG1536NC	SOP7	500	20	200	3.3	30	<30
ITG1536AC	SOP7	500	14	450	3.3	30	<30
ITG1532A	SOP8	650	13	300	12/18	65	<30
ITG1532B	SOP8	650	5	450	12/18	65	<30
ITG15328A	DIP7	650	13	400	12	65	<30
ITG15328B	DIP7	650	5	550	12	65	<30
ITG15329A	DIP7	650	13	350	18	65	<30
ITG15329B	DIP7	650	5	500	18	65	<30

## ACDC Special IC

P/N	Package	Device	Breakdown Voltage (V)	Source Current @V <sub>CC</sub> =10V	Function	V <sub>CC</sub> Voltage (V)
ITG7921	SOT23-3	N-JFET	600	4mA	0.55 Shut-down	27
ITG7920	SOT23-3	N-JFET	600	4mA	High Efficiency Charging	14.5

# Battery Management System

## Battery Protection

P/N	Package	Protection Level	Cell Number	Operation Voltage	Support Balance	Support Cascade	Battery Type	Applications
ITG3362-XXX	X2DFN1.2×1.2-6	1	1	1.5V~6V	N	N	Li-ion/Polymer Battery	Wearable Devices; Li-ion/Polymer Rechargeable Battery Pack
ITG3360-XXX	X2DFN1.57×1.9-6L	1	1	1.5V~6V	N	N	Li-ion/Polymer Battery	Mobile Phone; Li-ion/Polymer Rechargeable Battery Pack
ITG3320-XX	SOT23-6	1	2	4V~20V	Y	N	Li-ion/Polymer Battery	Li-ion/Polymer Rechargeable Battery Pack
ITG3412-XXX	UDFN1.97×2.46-8	2	2~4	3.5V~28V	N	N	Lithium-ion Battery	Notebook; Rechargeable Lithium-ion Battery Pack
ITG3410-XXX	MSOP8	2	2~5	3V~25V	N	N	Lithium-ion Battery	Power tool; Notebook; Rechargeable Lithium-ion Battery Pack
ITG3313-XXX	MSOP10	1	3	3V~25V	N	N	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Power Tools; Garden Tools
ITG3313S-XXX	SOP8	1	3	3V~25V	N	N	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Power Tools; Garden Tools
ITG3312-XXX	TSSOP-20	1	3~5	5V~35V	Y	N	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Power Tools; UPS Backup Battery
ITG3318-XXX	TSSOP-20	1	3~5	5V~35V	Y	Y	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Power Tools; UPS Backup Battery
ITG3317-XXX	TSSOP-24	1	5~7	6V~60V	N	Y	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Electric Bicycles; Motorcycles; Backup Battery Systems; Hybrid Electric Vehicles
ITG3319-XXX	TSSOP-24	1	6~7	6V~40V	Y	N	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Electric Scooters; Fascia Massagers; Electric Tools; Vacuum Cleaner
ITG3311-XXX	TSSOP-24	1	8~10	6V~60V	N	Y	Lithium-ion Battery	Rechargeable Lithium-ion Battery Pack; Electric Bicycle; Motorcycles; Backup Battery Systems; Hybrid Electric Vehicles

## Analog Front-End

P/N	Package	Min Cells	Max Cells	Operation Voltage	Operating Temperature Range	Communication Interface	Support Cascade
ITG3370	TSSOP38	4	10	8-60	-40 to 85	SPI	Y
ITG3371	TSSOP38	4	10	8-60	-40 to 85	SPI	Y
ITG3376	TSSOP48	8	16	16-120	-40 to 85	SPI	N
ITG3323	TSSOP30	13	13	6~65	-40 to 85	I2C	N

## Charger

P/N	Package	Battery Cells	Control Topology	Charge Current (A)	Max Operation $V_{IN}$ (V)	Absolute $V_{IN}$ (V)	Battery Voltage (V)	OTG Function	Battery Type	Control Interface
ITG3663	WLCSP-9 (1.75x1.75)	1	Linear	0.456	5.5	21	4.2	N	Li-Ion, Li-Polymer	I2C
ITG4054	SOT23-5	1	Linear	0.5	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone
ITG4054A	SOT23-5	1	Linear	0.5	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone
ITG3665	DFN2x2-8	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone
ITG3665A	DFN2x2-8	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone
ITG3665B	DFN2x2-8	1	Linear	1	7.5	18	4.33	N	Li-Ion, Li-Polymer	Stand-alone
ITG4056	ESOP-8	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone
ITG4056A	ESOP-8	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone
ITG3655E	QFN3x4-15	1~4	Buck-boost	3	21	24	3~21	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone
ITG3702	QFN4x4-32	2~4	Buck-boost	12.75 ( $R_{CS}=10m\Omega$ )	24	28	2.4~24	Y	Li-ion, Li-polymer, Li-FePO4	I2C
ITG3902	QFN4x4-24	2~3	Boost	2.5	5.5	20	8.15~13.05	N	Li-Ion, Li-Polymer	I2C
ITG3903	QFN4x4-24	2~3	Boost	2.5	5.5	20	8.4~13.05	N	Li-Ion, Li-Polymer	Stand-alone

## BMS Special IC

P/N	Package	Function Description	Channel	Operation Voltage	High-side/Low-side	$I_Q$
ITG3330	TSSOP16/SOP8	High-side NMOS driver	4/2	6~90V	High-side	12.5uA
ITG3332	SOP8	Ideal diode for BMS	1	10~150V	Low-side	1.1mA

# Linear Power Supply

## Load Switch

P/N	Package	Channel	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (A)	I <sub>Q</sub> (uA)	Enable	Soft Start	Fault Indicator	Programmable Current Limit	OCP
ITG7106	DFN2×2-8	1	0.7~5.5	6	60	Active High	External	N	N	N
ITG7107S	DFN3×2-14	2	0.7~5.5	6	80	Active High	External	N	N	N
ITG7109	DFN3×2-14	2	0.7~5.5	6	80	Active High	External	N	N	N
ITG7113	SOT23-5	1	2.7~5.5	2	80	Active High	Internal	Y	N	Y
ITG7124	DFN2×2-10	1	0.7~5.7	5	50	Active High	External	N	N	N

## USB Switch

P/N	Package	Channel	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (A)	I <sub>Q</sub> (uA)	Enable	Soft Start	Fault Indicator	Programmable Current Limit	OCP
ITG7115S-1	SOT23-5	1	2.7~5.5	1	80	Active High	Internal	Y	N	Y
ITG7115S-2	SOT23-5	1	2.7~5.5	2	80	Active High	Internal	Y	N	Y
ITG7115SA-1	SOT23-5	1	2.7~5.5	1	80	Active Low	Internal	Y	N	Y
ITG7115SA-2	SOT23-5	1	2.7~5.5	2	80	Active Low	Internal	Y	N	Y
ITG7105B	TSOT23-5	1	2.7~5.5	3	100	Active High	Internal	N	Y	Y
ITG7111S	SOT23-6 / DFN2×2-6	1	2.7~5.5	2.2	100	Active High	Internal	Y	Y	Y
ITG7111SA	SOT23-6 / DFN2×2-6	1	2.7~5.5	2.2	100	Active Low	Internal	Y	Y	Y
ITGH7103	SOT23-6 / DFN2×2-6	1	2.7~5.5	1.7	100	Active High	Internal	Y	Y	Y

## eFuse, Hotswap, Protection

P/N	Package	Channel	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (A)	I <sub>Q</sub> (mA)	Function	Soft Start	OCP	FET	Programmable Current Limit	OVP
ITG7112	SOT23-6	1	2.8~16	3	0.15	eFuse	Internal	Y	Internal	Y	N
ITG7118	SOT23-6 / DFN3×2-8	1	2.8~22	2.5	0.1	eFuse, OVP	Internal	Y	Internal	N	Y
ITGH7160	LGA5×5-32	1	4~16	50	1.8	eFuse	External	Y	Internal	Y	Y
ITG7211	TSSOP16	1	10~80	-	1.1	Hotswap, ORing	External	Y	External	Y	Y
ITG7221	MSOP10	1	9~80	-	0.51	Hotswap	External	Y	External	Y	Y
ITG7221L	MSOP10	1	9~80	-	0.51	Hotswap	External	Y(latch)	External	Y	Y
ITG7222	MSOP10	1	2.5~18	-	1	Hotswap	External	Y	External	Y	N
ITG7228	SOP8	1	9~80	-	0.53	Protection	External	Y	External	Y	Y
ITG7228P	MSOP10	1	9~80	-	0.53	Protection	External	Y	External	Y	Y

## ORing and Ideal Diode

P/N	Package	Channel	FET	High-side / Low-side	V <sub>IN</sub> (V)	I <sub>Q</sub>	Features
ITG7201	DFN4×3-14 / SOP16	2	External	High-side	6~80	360uA	Fault Indicator
ITG7202	SOP8	2	External	Low-side	10~150	1.4mA	ORing
ITG7203	SOP8	1	External	Low-side	10~150	1.1mA	ORing
ITG7211	TSSOP16	1	External	Low-side	10~80	1.1mA	ORing+Hotswap
ITG7260	TSOT23-6	1	External	High-side	6~80	380uA	ORing
ITG7265	TSOT23-6	1	External	High-side	6~60	295uA	Oring, EN Control, Low IQ





## H-Bridge

P/N	Package	V <sub>IN</sub> (V)	Current Capability (A)	R <sub>DS(ON)</sub> (HS+LS) (mΩ)	Integrated MOS	I <sub>Q</sub> (uA)	Typical Application
ITG7902	DFN2×2-8 / SOT23-6	3~15	1	1000	Y	10	Relay Driver, IR-cut Driver, Motor Driver
ITG7951C	QFN3×4-15	4~20	3	40	Y	37	Wireless charger, Full-Bridge Power stage

## Gate Driver

P/N	Package	Channel	Configuration	Max Boot-Voltage (V)	Capacity (SRC/ SNK, A)	Supply Range (V)	Propagation Delay (ns)	Delay Match (ns)
ITGH7911B	SOP8 / DFN4×4-8	2	High-side & low-side	120	4.0/ 4.0	8~15	33	2
ITGH7915	DFN4×4-10/ DFN3×3-9	2	High-side & low-side	120	4.0/ 4.0	8~15	42	4
ITGH7917	SOT23-5/ DFN3×3-6	1	Low-side	/	4.0/ 4.0	4.5~20	18	/
ITGH7924	SOP8 / EMSOP8 / DFN3×3-8	2	Low-side	/	4.5/ 4.5	4.5~20	13	0.5

## Operational Amplifier

P/N	Package	Supply (Max) (V)	Supply (Min) (V)	Rail-to-rail	I <sub>q</sub> (Typ) (ua)	Input Bias Current (Typ) (pA)	GBW (Typ) (MHz)	Slew Rate (Typ) (V/us)	V <sub>os@25C</sub> Max (mV)	V <sub>n</sub> at 1 kHz (Typ) (nV/rtHz)	Unit-gain Stable
ITGS29001TA	SOT23-5	5.5	1.8	In, Out	60	5	1	2.4	1.6	35	Y
ITGS29001TB	SOT23-5	5.5	1.8	In, Out	60	5	1	2.4	1.6	35	Y
ITGS29001CA	SOT353-5	5.5	1.8	In, Out	60	5	1	2.4	1.6	35	Y
ITGS29001CB	SOT353-5	5.5	1.8	In, Out	60	5	1	2.4	1.6	35	Y
ITGS29001	DFN-5	5.5	1.8	In, Out	60	5	1	2.4	1.6	35	Y

## Clock Buffer

P/N	Package	Input Level	Input Channel	Output Level	Output Channel	Frequency (MHz)	VDD (V)	VDDO (V)	Propagation Delay	Output Skew
ITGH2031	VQFN5×5-32L	LVPECL/LVDS/HCSL/ SSTL/Single-Ended/Crystal	3	LVC MOS	10	0~200	3.3/2.5/1.8	3.3/2.5/1.8/ 1.5	1.9 ns (typ) VDD=3.3 V	55 ps (max)

# Automotive Products (ACE-Q100)

## Automotive Buck Converter

P/N	Package	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>SW</sub> (kHz)	Soft Start	Power Good	Light Load	Sync	Control Method
ITGQ5217	DFN2×2-8	1	2.5~5.5	2	0.45	30	2000	Internal	Y	PFM	Y	COT
ITGQ5273	QFN3×3-16	1	2.95~7	3	0.6	210	400~2400	Adjustable	Y	FCCM	Y	COT
ITGQ5276	QFN3×3-16	1	2.95~7	6	0.6	210	400~2400	Adjustable	Y	FCCM	Y	COT
ITGQ5102A	QFN3×2-12	1	4~36V	2	0.8	45	410	Internal	Y	PFM	Y	PCM
ITGQ5102B	QFN3×2-12	1	4~36V	2	0.8	45	1000	Internal	Y	PFM	Y	PCM
ITGQ5102C	QFN3×2-12	1	4~36V	2	0.8	45	2100	Internal	Y	PFM	Y	PCM
ITGQ5102CSF	QFN3×2-12	1	4~36V	2	0.8	45	2100	Internal	Y	FCCM	Y	PCM
ITGQ5103A	QFN3×2-12	1	4~36V	3	0.8	45	410	Internal	Y	PFM	Y	PCM
ITGQ5103B	QFN3×2-12	1	4~36V	3	0.8	45	1000	Internal	Y	PFM	Y	PCM
ITGQ5103C	QFN3×2-12	1	4~36V	3	0.8	45	2100	Internal	Y	PFM	Y	PCM
ITGQ5103CSF	QFN3×2-12	1	4~36V	3	0.8	45	2100	Internal	Y	FCCM	Y	PCM
ITGQ5123	ESOP8	1	4.5~60	3.5	0.75	180	100~2000	Internal	N	PFM	N	PCM
ITGQ5125	ESOP8	1	4.5~60	5	0.75	180	100~2000	Internal	N	PFM	N	PCM

## Automotive Buck Controller

P/N	Package	Topology	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>SW</sub> (kHz)	Features
ITGQ6346	QFN3.5×4.5-20	Buck	6~75	0.8~Dmax·VIN	0.8	600	100~740	Light Load Selectable(PFM/FCC) MOSFET Gate Driver Voltage Selectable(7.5V/10V)
ITGQ6346A	QFN3.5×4.5-20	Buck	6~75	0.8~Dmax·VIN	0.8	600	100~740	Light Load Selectable(PFM/FCC) MOSFET Gate Driver Voltage Selectable(7.5V/10V)

## Automotive Load Switch and USB Switch

P/N	Package	Channel	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (A)	I <sub>Q</sub> (uA)	Soft Start	Enable	Fault Indicator	Programmable Current Limit	OCP
ITGQ7101	SOT23-6	1	2.7~5.5	1.7	100	Internal	Active High	Y	Y	Y

## Automotive LDO

P/N	Package	V <sub>IN</sub> (V)	I <sub>OUT</sub> (mA)	I <sub>Q</sub> (uA)	Output Options	Features
ITGQ7821	DFN3×3-8	2.2~5.5	1000	200	Adjustable	Enable, OTP, OCP, Low noise, High PSRR
ITGQ7830	ESOP8	2.7~20	300	60	Adjustable	Enable, OTP, OCP, Low noise, High PSRR

## Automotive Gate Driver

P/N	Package	Channel	Configuration	Capacity (SRC / SNK, A)	Supply Range (V)	Propagation Delay (ns)	Delay Match (ns)
ITGQ7924	SOP8 / ESOP8	2	Low-side	4.5 / 4.5	4.5~20	13	0.5

## Automotive Boost Converter

P/N	Regulated Outputs	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>MAX</sub> Switch Current(A)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>SW</sub> (kHz)	Soft Start	Light Load	Sync	Control Method
ITGQ5513	1	2.8~20	4~20	15	1	80	400-2000	Internal	PFM/PWM/USM	Y	COT

## Automotive DrMOS

P/N	Package	V <sub>IN</sub> (V)	HS Current Limit (A)	Max F <sub>SW</sub> (kHz)	PWM Logic Voltage (V)	Feature
ITGQ7065	LGA5×6-41	3~16	75	1000	3.3	Compatible with mainstream controller