



# ***Industrial Designs***

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### Single Output Step Down (Buck) Converter, $V_{IN}$ Max < 7V

Partnumber	$V_{IN}$ (min) (V)	$V_{IN}$ (max) (V)	$I_{OUT}$ (max) (A)	$f_{SW}$ (MHz)	$V_{OUT}$ (min) (V)	$V_{REF}$ Accuracy	Quiescent Current ( $\mu$ A)	MOSFET (Ron H/L) (m $\Omega$ )	SST	Output Discharge	Short Circuit Protection	Temp Range	PG	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26002QWC	2.75	5.5	3	1.5	0.6	$\pm 2.0\%$		85/50	External	Yes	Hic-Cup Mode	-40°C to 125°C		Force CCM Mode	QFN1.5×1.5-7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26003SYD	2.5	6	3	2.4	0.8	$\pm 1.5\%$	23	31/23	0.8ms Internal	Yes	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>		DFN2×2-7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26004SYD	2.5	6	4	2.4	0.6	$\pm 1.5\%$	23	25/17	0.8ms Internal	Yes	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>		DFN2×2-7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NEW SY26006SYD	2.5	6	6	1	0.6	$\pm 1.5\%$	23	22/12	0.8ms Internal	Yes	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>		DFN2×2-7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26016QDC	2.95	6	6	0.2~2	0.6	$\pm 1.0\%$		12/12	External	No	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>	Force CCM Mode, External COMP	QFN3×3-16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26056WEQ	0.8	6	6	0.6/1	0.4	$\pm 1.0\%$		18/10	1.6ms Internal	Yes	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>	PFM or FCCM	QFN3.5×4-20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### Single Output Step Down (Buck) Converter, $V_{IN}$ Max > 7V

Partnumber	$V_{IN}$ (min) (V)	$V_{IN}$ (max) (V)	$I_{OUT}$ (max) (A)	$f_{SW}$ (MHz)	$V_{OUT}$ (min) (V)	$V_{REF}$ Accuracy	Quiescent Current ( $\mu$ A)	MOSFET (Ron H/L) (m $\Omega$ )	SST	Output Discharge	Short Circuit Protection	Temp Range	PG	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26406SXC	7	100	0.6	0.2~1	1.225	$\pm 2.0\%$	/	500/285	2ms Internal	No	Cycle-by-cycle Peak Current Limit	-40°C to 125°C		FCCM, Programmable Switching Frequency Range: 200kHz~600kHz	DFN4×4-8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26406FCC	7	100	0.6	0.2~0.6	1.225	$\pm 2.0\%$	/	500/285	2ms Internal	No	Cycle-by-cycle Peak Current Limit	-40°C to 125°C		FCCM, Programmable Switching Frequency Range: 200kHz~600kHz	SO8E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26407FCC	7	100	1	0.2~1	1.225	$\pm 2.0\%$	/	500/240	Internal	No	Cycle-by-cycle Peak Current Limit	-40°C to 125°C		Programmable Switching Frequency Range: 200kHz~600kHz	SO8E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26420FCC	4.5	60	2	0.1~1	0.8	$\pm 1.0\%$	100	175/	2ms Internal	No	Hic-Cup Mode	-40°C to 125°C	<input checked="" type="checkbox"/>	Hic-cup SCP	SO8E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26230AIC	4.5	30	3	0.5~2.5	0.6	$\pm 3\%$	19	110/70	1ms Internal	No	Hic-Cup Mode	-40°C to 125°C		Hic-cup SCP	TSOT23-8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26335FCA	4.2	40	3.5	0.3~2.2	0.6	$\pm 2.0\%$	18	115/80	1ms Internal	No	Hic-Cup Mode	-40°C to 105°C	<input checked="" type="checkbox"/>	Hic-cup SCP	SO8E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26103RHQ	5.2	18	4	2	0.6	$\pm 1.83\%$	75	50/25	Programmable	No	Cycle-by-cycle Valley/Peak Current Limit	-40°C to 125°C	<input checked="" type="checkbox"/>	Programmable Soft- start	QFN2.5×2.5-16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SY26136RAC	4	23	6	0.6	0.6	$\pm 1.0\%$	120	38/19	1.3ms Internal	Yes	Hic-Cup Mode		<input checked="" type="checkbox"/>	Power Good Indicator, Hic-cup SCP, PFM/PWM	QFN3×3-20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



### Single Output Step Down (Buck) Converter, $V_{IN}$ Max > 7V

Partnumber	$V_{IN}$ (min) (V)	$V_{IN}$ (max) (V)	$I_{OUT}$ (max) (A)	$f_{SW}$ (MHz)	$V_{OUT}$ (min) (V)	$V_{REF}$ Accuracy	Quiescent Current ( $\mu$ A)	MOSFET (Ron H/L) (m $\Omega$ )	SST	Output Discharge	Short Circuit Protection	Temp Range	PG	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26138RAC	4	23	8	0.6	0.6	$\pm 1.0\%$	120	22/11	1.1ms Internal	Yes	Hic-Cup Mode		$\checkmark$	Power Good Indicator, Hic-cup SCP, PFM/PWM	QFN3x3-20	$\checkmark$	$\checkmark$	$\checkmark$
SY26112VDC	2.7	16	12	0.6/0.8/1.0	0.6	$\pm 1.0\%$	650	12.6/4.3	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3x4-19	$\checkmark$	$\checkmark$	$\checkmark$
SY26172TXQ	2.7	16	12	0.6/0.8/1.0	0.6	$\pm 1.0\%$	650	12.6/4.3	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup	QFN3x4-21	$\checkmark$	$\checkmark$	$\checkmark$
SY26120VDC	2.9	16	20	0.6/0.8/1.0	0.6	$\pm 1.0\%$	550	7.5/2.4	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3x4-19	$\checkmark$	$\checkmark$	$\checkmark$
SY26180TXQ	2.9	16	20	0.6/0.8/1.0	0.6	$\pm 1.0\%$	550	7.5/2.4	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3x4-21	$\checkmark$	$\checkmark$	$\checkmark$
SY26190VDQ	2.9	16	20	0.6/0.8/1.0	0.6	$\pm 1.0\%$	550	8.6/2.5	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3x4-19	$\checkmark$	$\checkmark$	$\checkmark$
SY26190TXQ	2.9	16	20	0.6/0.8/1.0	0.6	$\pm 1.0\%$	550	8.6/2.5	Internal & Adjustable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3x4-21	$\checkmark$	$\checkmark$	$\checkmark$
SY26613QDQ (Controller)	4.5	19	/	0.5	0.6	$\pm 1.0\%$	1mA (max.)	/	Programmable	Yes	Hic-Cup Mode	-40°C to 125°C	$\checkmark$	Programmable Soft-start/Switching frequency/Over current limit, USM or FCCM	QFN3x3-16	$\checkmark$	$\checkmark$	$\checkmark$

### Single Output Step Up (Boost) Converter (Low Voltage)

Partnumber	$V_{IN}$ (min) (V)	$V_{IN}$ (max) (V)	$I_{LIM}$ (A)	$f_{sw}$ (MHz)	$V_{OUT}$ (max) (V)	Sync Boost	$V_{REF}$ Accuracy	Input Quiescent Current ( $\mu$ A)	MOSFET(Ron Main/Sync) (m $\Omega$ )	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26522ABC	0.98	5.5	2	1	5.5	Y	1.2V $\pm$ 1.5%	0.7	100/170	Auto Bypass Mode When $V_{IN} \geq V_{OUT}$ , OVP	SOT23-6	$\checkmark$	$\checkmark$	$\checkmark$



### Single Output Step Up (Boost) Converter (High Voltage)

Partnumber	V <sub>IN</sub> (min) (V)	V <sub>IN</sub> (max) (V)	I <sub>OUT</sub> (max) (A)	f <sub>SW</sub> (MHz)	V <sub>OUT</sub> (max) (V)	Sync Boost	V <sub>REF</sub> Accuracy	Input Quiescent Current (μA)	MOSFET(Ron Main/Sync) (mΩ)	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26532ABC	3	30	2	1	33	N	0.6V±3%	100	200/-	Internal SS/Comp	SOT23-6	√	√	√
<b>NEW</b> SY26512ARAC	2.9	16	10	0.4~2	16	Y	1V±2%	200	10/20	PFM/PWM Light Load Operation Mode, OVP, Programmable Switching Frequency: 0.4~2MHz, Programmable I <sub>LIM</sub> : 2~10A	QFN3x3-20	√	√	√
SY26533ABC	3	30	0.6	1	33	N	1.24V±2%	100	400/-	Internal SS/Comp	SOT23-6	√	√	√

### DC-DC PWM Controller (External Switch)

Partnumber	V <sub>IN</sub> (min) (V)	V <sub>IN</sub> (max) (V)	f <sub>SW</sub> (MHz)	V <sub>REF</sub> Accuracy	Quiescent Current (μA)	Temp Range	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26612AFHC	3	25	0.3	1V±8%	130	-40°C to 125°C	Current mode DC/DC controller targeted for both Boost and SEPIC applications with DC Output Current Limit	SSOP10	√	√	√

### LDO Regulator

Partnumber	V <sub>IN</sub> (min) (V)	V <sub>IN</sub> (max) (V)	Output Voltage Range (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> /V <sub>ADJ</sub>	V <sub>FB</sub> /V <sub>ADJ</sub> Accuracy	PSRR	Dropout Voltage (mV)	Temp Range	Function	Package	Datasheet	Sample	Demo
SY20737HDGD	4	36	Adjustable	0.5	1.235	±1.0%	60dB @1kHz	500	-40°C~125°C	LDO Regulator	DFN2x3-8	√	√	√
<b>NEW</b> SY20773DSD	1.6	5.5	Adjustable	1	1	±5%	-60dB@1kHz	320mV@V <sub>OUT</sub> =1.5V 180mV@V <sub>OUT</sub> =2.8V	-40°C~125°C	LDO Regulator Current Limiting Protection	DFN3x3-6	√	√	√
SY20787MAB	3	18	Adjustable	3	1.24	±2.0%	30dB @100kHz	480	-40°C~125°C	LDO Regulator	TO263-5	√	√	√
SY20775DBD	2.375	3.5	Adjustable	3				/	-40°C~125°C	Sink and Source DDR Termination Regulator	DFN3x3-10	√	√	√



### Hotswap ORing

Partnumber	Package	Enable Logic	OCP	OVP	No. of Channels	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	Temp Range	Special Function	Datasheet	Sample	Demo
NEW SY28900IAC	DFN4×3-14	H	Y		2	6~80	0~80	-40°C to 125°C	Dual input, Positive High Voltage Ideal Diode-OR with Input Supply and Fuse Monitors	√	√	√
SY28901HKC	TSSOP16	Y	Y	Y	1	-10~ -200	0~ -80	-40°C to 125°C	Integrated ORing Controller, Dual Hot Swap Gate Driver	√	√	√
SY28902FBC	MSOP10	/	/	/	1	1.5~60	0~60	-40°C to 125°C	IEEE802.3bt PD Interface Controller	√	√	√
NEW SY28902BDBD	DFN3×3-10	/	/	/	1	1.5~60	0~60	-40°C to 125°C	IEEE 802.3af/at-compliant PD Interface Controller	√	√	√
SY28903FBP	MSOP10	H	Y		1	2.5~18	0~18	-40°C to 125°C	Power Limiting Hotswap Controller Programmable FET SOA Protection/Fault Timer/UV Threshold	√	√	√

### Protection Switch

Partnumber	Package	Enable Logic	OCP	OVP	Output Clamp	Output Discharge	No. of Channels	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (A)	R <sub>DS(on)</sub>	Special Function	Datasheet	Sample	Demo
SQ24806AQSC	QFN3×4-20	H	Y	Y		N	1	2.7~18	0~18	0.6~5.3	42mΩ	Output Reverse Blocking	√	√	√
SQ24815BDBC	DFN3×3-10	H	Y	Y	Y	Y	1	2.5~18	2.5~6.5	5	40mΩ	2 Level Current Limit (1.4A/2.75A), Prog.SS, Selectable Input and Clamping Voltage Range	√	√	√
SQ24815CDBC	DFN3×3-10	H	Y	Y	Y	Y	1	2.5~18	2.5~6.5	5	40mΩ	Fixed Current Limit, Prog.SS,3.3V/5V Selectable Power Rail with 2.4V UVLO	√	√	√
SQ24026DUC	DFN3×2-14	H	Y	N		Y	2	0.8~5.5	0.8~5.5	6	18mΩ	Dual-channel, Programmable Soft-start Time	√	√	√
SQ24092ZDEC	DFN2×2-6	H	Y	N		Y	1	2.5~5.5	0~5.5	2	65mΩ	Output Discharge at Shutdown Reverse Blocking, Fast OCP, OCB Indicator	√	√	√
SQ24010ADHC	DFN2×3-10	H	N	N		Y	1	0.6~5.5	0~5.5	10	2.8mΩ	Controlled and Adjustable Slew Rate, Power Good Indicator	√	√	√

### Charge Pump

Partnumber	Package	Enable Logic	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	No. of Channels	Quiescent Current (mA)	I <sub>OUT</sub> (A)	f <sub>sw</sub> (kHz)	Temp Range	Features	Datasheet	Sample	Demo
SY20749VLQ	QFN1.4×1.8-10	H	2.3~5.5	-VIN	2	1.2	0.2	500	-40°C to 125°C	Negative Charge Pump and Adjustable Regulator	√	√	√



### 5V Bus Buck Module

Part Number	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>OUT</sub> (Max) (A)	F <sub>SW</sub> (MHz)	Output Voltage (V)	V <sub>FB</sub> Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20611RCC	2.5	5.5	1.2	3	Adjustable	±2%	79% @ 3.3V <sub>IN</sub> , 1.8V <sub>OUT</sub>		QFN2.5×2-8	1.1
SY20623DAFM	2.5	6	3	2.4	Adjustable	±1%	88% @ 3.3V <sub>IN</sub> , 1.8V <sub>OUT</sub>	FCCM	MDFN2.5×2-10	1.3
SY20616BQLC	2.7	5.5	6	1.5	Adjustable, Default: 1V	±1%	83% @ 3.3V <sub>IN</sub> , 1V <sub>OUT</sub>	I <sup>2</sup> C	QFN3×4-16	2.1
SY20616B2QLC	2.7	5.5	6	1.5	Adjustable, Default: 0.85V	±1%	83% @ 3.3V <sub>IN</sub> , 1V <sub>OUT</sub>	I <sup>2</sup> C	QFN3×4-16	2.1
SY20616CQLC	2.7	5.5	6	1.5	Adjustable, Default: 1.5V	±1%	83% @ 3.3V <sub>IN</sub> , 1V <sub>OUT</sub>	I <sup>2</sup> C	QFN3×4-16	2.1
SY20616DABM	2.7	5.5	6	1.5	Adjustable, Default: 0V	±1%	83% @ 3.3V <sub>IN</sub> , 1V <sub>OUT</sub>	I <sup>2</sup> C	MQFN3×4-16	2.1
SY20616EAIM	2.7	5.5	6	1.5	Adjustable, Default: 1V	±1%	83% @ 3.3V <sub>IN</sub> , 1V <sub>OUT</sub>	I <sup>2</sup> C	MQFN3.2×4.2-16	2.1

### 12V Bus Buck Module

Part Number	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>OUT</sub> (Max) (A)	F <sub>SW</sub> (MHz)	Output Voltage (V)	V <sub>FB</sub> Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20656ATRC	4.5	18	2	1	Adjustable	±1%	92% @ 12V <sub>IN</sub> , 5V <sub>OUT</sub>	FCCM	QFN3×3-7	2.1
SY20653ATRC	4.5	18	3	1	Adjustable	±1%	91% @ 12V <sub>IN</sub> , 5V <sub>OUT</sub>	FCCM	QFN3×3-7	2.1
SY20688VVC	4.5	16	15	Adj	Adjustable	±1%	92% @ 12V <sub>IN</sub> , 3.3V <sub>OUT</sub>		QFN7×8-52	4.5
SY20666RLC	4.5	15	5	1.5	Adjustable	±1%	86.5% @ 12V <sub>IN</sub> , 3.3V <sub>OUT</sub>	I <sup>2</sup> C	QFN5×5-20	2.1
SY20654QLC	5	23	1.5	0.6	Adjustable	±1%	87.5% @ 12V <sub>IN</sub> , 3.3V <sub>OUT</sub>	FCCM	QFN3×4-16	2.1
SY20654AQLC	5	16.5	1	0.6	Adjustable	±1%	85% @ 12V <sub>IN</sub> , -5V <sub>OUT</sub>	Reverse V <sub>OUT</sub> Buck-Boost, FCCM	QFN3×4-16	2.1



### Non-isolated Module

Part Number	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>OUT</sub> (Max) (A)	F <sub>SW</sub> (MHz)	Output Voltage (V)	V <sub>FB</sub> Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20608QNC	0.85	5.5	0.5	2	Adjustable	±1.5%	90% @ 3.3V <sub>IN</sub> , 5V <sub>OUT</sub>	Boost	QFN3×3-10	1.1
SY20631QNC	0.85	5.5	1	2	Adjustable	±1.5%	90% @ 3.3V <sub>IN</sub> , 5V <sub>OUT</sub>	Boost	QFN3×3-10	2.1
SY26901ACM	2.65	5.5	1.5	1	3.3 (Recommended)	±1.5%	84.5% @ 3.3V <sub>IN</sub> , 3.3V <sub>OUT</sub>	Buck-Boost	MQFN2×3-13	1.2



### Power Storage and Release PMIC

Part Number	Operating Voltage	Package	Storage Voltage	Charge Current Limit	Dumping Current Limit	Features	Operation Temperature	Typical Applications	Datasheet	Sample	Demo
SQ40201FAP	4.5~18V	SOP-8	Up to 36V	260mA	2.5A	Programmable Storage and Release Voltage Dying Gasp Active Indicator	-40°C to 85°C	NOT, GPON Modems	√	√	√
SQ40001RGQ	2.6-16V	QFN4x4-25	Up to 36V	2.5A	5A	Programmable Storage & Release voltage, Input OVP and Current Limit Protection Storage Capacitance and ESR Detection	-40°C to 125°C	SSD	√	√	√

### High Voltage AC/DC Auxiliary Power Supply (Buck/Flyback)

Partnumber	V <sub>IN</sub> (min) (V)	V <sub>IN</sub> (max) (V)	f <sub>SW</sub> (MHz)	V <sub>REF</sub> Accuracy	Quiescent Current (μA)	Temp Range	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26741FHC	4.5	25.5	0.06	1.2V±2%	200	-40°C to 125°C	Peak current mode buck/flyback switcher integrated 800V power MOS	SSOP10	√	√	√

### Isolated DC/DC Auxiliary Power Supply for Telecom

Partnumber	V <sub>IN</sub> (min) (V)	V <sub>IN</sub> (max) (V)	f <sub>SW</sub> (MHz)	V <sub>REF</sub> Accuracy	MOSFET (BV & Ron)	Temp Range	Feature/ Special Function	Package	Datasheet	Sample	Demo
SY26715ASXC	36	75	0.3~0.9	2.50V±2%	200V/1.6Ω	-40°C to 125°C	Integrated Power Switch Circuit and Startup Circuit Targeted for applications requiring up to 6W Programmable Switching Frequency Input Under voltage and Over voltage Detectors Internal Cycle by Cycle Current Limit	DFN 4*4-8	√	√	√





### Motor Driver

Part Number	Recommended Operating Voltage		Maximum Drive Current	MOSFET R <sub>ON</sub> (mΩ) HS + LS	Low-power Sleep Mode	Package	Typical Applications	Temp Range	Datasheet	Sample	Demo
	Min(V)	Max(V)									
SY21672DFD	2.5	12	1.8A	<450mΩ	√	DFN2x2-8	Camera/DC Brushed Motor	-40°C to 85°C	√	√	√
SY21673QIQ	2.5	16	1.5A	<480mΩ	√	QFN4x4-16	Printer Stepper Motor	-40°C to 85°C	√	√	√

### Light Sensor

Part Number	Operating Voltage	Package	Function	Typical Current	ALS Bit	ALS Test Range(lux)	Operation Temperature	Typical Applications	Datasheet	Sample	Demo
SY22389AS23-J00	2.3~3.6V	SMD2024	ALS+Clear	180uA	16	0.00005~2300	-40°C to 85°C	16-bit Ambient Light Sensor with Ultra-high Sensitivity and High IR Rejection	√	√	√
<b>NEW</b> SY22382-H2	2.7~3.6V	DIP4646	Light Sensor with Frequency Output				-40°C to 85°C	Pulse Oximeter	√	√	√



### Switching Charger

Partnumber	Package	V <sub>IN</sub> (V)	Max. Charge Current (A)	F <sub>SW</sub> (MHz)	Series Cells	Cell Voltage	Special Function	Temp Range	Features	Datasheet	Sample	Demo
SY20743BQCC	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, Step 32mV	NVDC Power Path Management, OTG, BC1.2 Compliance, USB Source Detection	-40°C to 150°C	Single Cell Li-Ion DC/DC Switching Charger	√	√	√

### Switched Capacitor Charger

Partnumber	Package	V <sub>IN</sub> (V)	Typical Output Current (A)	F <sub>SW</sub> (MHz)	ADC	MOSFET Peak Current(A)	Protection	Temp Range	Features	Datasheet	Sample	Demo
SY24510UIC	CSP2.57×3.71-34	4.5~20	2	0.125~1	NO	14.5	OCP, OTP, OVP	-40°C to 125°C	High Efficiency Single Phase 2:1 Switched Capacitor Converter	√	√	√

### Sensor/Monitor in Power Supply

Part Number	Description	V <sub>IN</sub> (V)	CM Sense Range(V)	DM Sense Range (mV)	I <sub>Q</sub> (Typ)	Gain (V/V)	Gain Error (Typ)	Gain Error (Max)	Offset (Typ)	Offset (Max)	Output Mode	Alert	Feature/ Special Function	Temp Range	Package	Datasheet	Sample	Demo
SY24641AHT	Current Sense Amplifier	3-5.5	-0.3-26	±90	80uA	50	±0.02%	±0.5%	±5uV	±100uV	Analog	No		-40°C to 125°C	SOT363	√	√	√
SY24642AHT	Current Sense Amplifier	3-5.5	-0.3-26	±45	78uA	100	±0.02%	±0.5%	±1uV	±50uV	Analog	No		-40°C to 125°C	SOT363	√	√	√
SY24656FBC	High-accuracy Power Monitor	2.7-5.5	0-36	±80	396uA		±0.02%	0.2%/0.15%	1.25mV/2.5uV	7.5mV/10uV	I <sup>2</sup> C/PMBUS	Yes	16-bit ADC for BUS & Shunt Voltage	-40°C to 125°C	MSOP-10	√	√	√
SY24640TDD	36V Common Mode Current Sense Comparator	2.7-5.5	0-36	250	135uA	/			-75uV	-500uV	Analog	Yes	3 Delay time	-40°C to 125°C	DFN2x2-10	√	√	√

# ***POWERING THE FUTURE***



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