



Selection Guide

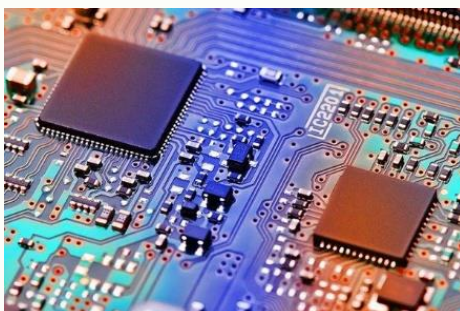
DC/DC

AC/DC

PMIC

Battery

Module



INDUSTRY 4.0



Lighting

Backlighting

ESD

MCU

PLD

Audio

Sensor

TPMS

BLE

Metering

EMC

Mesh

Gauge

SAR

Motor

Q1 2023



“

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The main products include: DC/DC, AC/DC, PMIC, LED lighting, BMS, light sensor, motor driver, audio power amplifier, power module, protection switch, Energy measurement, metering and signal chains solutions.

Silergy has the industry-leading process technology to design innovative mixed-signal and analog IC. Our products are widely used in industrial, consumer, computing and telecom equipment. We have always been committed to providing our customers with better performance and higher reliability analog IC.

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DC/DC

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

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
SY20208ADFC	2.5	5.5	0.45	/	0.6	±2%	400/200	1.5	DFN2×2-8	Power Good Indicator, Ultra Low Quiescent Current
SY20011DFC	2.2	5.5	0.5	1	1.2	±1.5%	280/120	0.4	DFN2×2-8	Power Good Indicator, Output Auto Discharge
SY20213BDTC	1.85	5.5	0.6	3	0.4	±2%	350/250	40	DFN1.45×1-6	
SY20111DQC	2.5	5.5	1	2.5	0.6	±2%	230/150	40	DFN1.5×1.5-6	Output Auto Discharge
SY20018IAAC	2.5	5.5	1	1.5	0.6	±1.5%	260/170	50	SOT23-5	Output Auto Discharge
SY20018A1AAC	2.5	5.5	1	1.5	0.6	±1.5%	260/160	50	SOT23-5	
SY20061IDEC	2.5	5.5	1	1.5	0.6	±1.5%	220/130	50	DFN2×2-6	Auto Discharge
SY20095DEC	2.5	6.5	1	1.5	0.6	±2%	260/170	40	DFN2x2-6	
SY20097AAC	2.5	6.5	1	1.5	0.6	±2%	260/170	40	SOT23-5	
SY20108AAC	2.5	5.5	1	3	0.6	±2%	270/160	40	SOT23-5	
SY20109BDFC	2.4	6	1	1	1.2	±1.5%	300/130	400nA@STB=0 15μA @STB=1	DFN2×2-8	Power Good Indicator, ultra low I_Q , Hic-cup SCP, Auto Discharge
SY20019ARC	2.5	5.5	1	1.5	0.6	±1.5%	170/100	55	SOT563	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY20019EARC	2.5	5.5	1	1.5	0.6	±1.5%	170/100	/	SOT563	Power Good Indicator, FCCM, Hic-cup SCP, Auto Discharge
SY20123QWC	2.6	5.5	1.5	2	0.6	±1%	180/100	55	QFN1.5×1.5-7	Power Good Indicator, Auto Discharge
SY20121ARC	2.6	5.5	1.5	2		±1%	180/100	55	SOT563	Output Auto Discharge
SY20122E1ABC	2.5	5.5	2	1.5	0.6	±1.5%	130/85	/	SOT23-6	Power Good Indicator, Hic-cup SCP, Output Auto Discharge
SY20122IABC	2.5	5.5	2	1.5	0.6	±1.5%	130/85	50	SOT23-6	Power Good Indicator, Latch-off Protection
SY20122A1ABC	2.5	5.5	2	1.5	0.6	±1.5%	130/85	50	SOT23-6	Power Good Indicator, Hic-cup Protection
SY20149A1AAC	2.7	5.5	2	1.5	0.6	±1.5%	130/85	50	SOT23-5	Output Auto Discharge
SY20149IAAC	2.5	5.5	2	1.5	0.6	±1.5%	130/85	50	SOT23-5	Latch-off Protection
SY20149E1AAC	2.5	5.5	2	1.5	0.6	±1.5%	130/85	/	SOT23-5	Hic-cup SCP, Auto Discharge
SY20162IABC	2.7	5.5	2	1.5	0.6	±1.5%	130/85	50	SOT23-6	Power Good Indicator
SY20114ARC	2.5	5.5	2	1.5	0.6	±1.5%	125/75	55	SOT563	Power Good Indicator, Hic-cup SCP, Auto-discharge
SY20114EARC	2.5	5.5	2	1.5	0.6	±1.5%	125 /75	/	SOT563	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY20012ART	2.5	5.5	2	1.5	0.6	±1.5% (-40~125°C)	45/35	21	SOT563	PFM Mode for Light Load Efficiency, Auto Discharge, ultra low I_Q
SY20013ART	2.5	5.5	3	1.5	0.6	±1.5% (-40~125°C)	45/35	21	SOT563	PFM Mode for Light Load Efficiency, Auto Discharge, ultra low I_Q
SY20113ADFC	2.7	5.5	3	1	0.6	±2%	110/80	55	DFN2×2-8	Power Good Indicator, Non-latch off protection
SY20113A1DFC	2.5	5.5	3	1.5	0.6	±1.5%	130/85	50	DFN2×2-8	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY20113CDFC	2.7	5.5	3	3	0.6	±2%	100/80	55	DFN2×2-8	Power Good Indicator

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

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY20115DBC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN3 $\times$ 3-10	Power Good Indicator, Latch off Protection, Auto Discharge
SY20124QWC	2.7	5.5	3	1.5	0.6	$\pm 1\%$	85/50	65	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Auto Discharge
SY20124LQWC	2.7	5.5	3	1.5	0.6	$\pm 1\%$	85/50	65	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Auto Discharge
SY20193QWC	2.7	5.5	3	1	0.6	$\pm 1\%$	85/50	55	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Light Load Mode Selection
SY20193LQWC	2.7	5.5	3	1	0.6	$\pm 1\%$	85/50	55	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Light Load Mode Selection
SY20117DFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Latch off Protection, Auto Discharge
SY20117ADFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY20117EDFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	/	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY20107ABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	SOT23-6	Power Good Indicator, Latch off Protection, Auto Discharge
SY20107AABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	SOT23-6	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY20107EABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	/	SOT23-6	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY20112ARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	50	SOT563	Power Good Indicator, Output Auto Discharge
SY20112EARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	/	SOT563	Power Good Indicator, Hic-cup SCP, Forced PWM, Output Auto Discharge
SY20112LARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	50	SOT563	Power Good Indicator, Latch-off Protection, Output Auto Discharge
SY26023DQD	2.5	5.5	3	2.2	0.6	$\pm 1\%$	38/30	21	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge
NEW										
SY20053DQC	2.4	5.5	3	2.2	0.6	$\pm 1\%$	35/25	16	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge, PFM Mode
SY26024DQD	2.5	5.5	4	2.2	0.6	$\pm 1\%$	38/30	21	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge
SY20118ADFC	2.5	5.5	4	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY20212BAIC	2.6	5.5	4	1.8	/	$\pm 1\%$	70/40	80	TSOT23-8	Programmable Output Voltage: 0.7625V to 1.55V in 12.5mV/step; Default 1.15V output voltage
SY20212CAIC	2.6	5.5	4	1.8	/	$\pm 1\%$	70/40	80	TSOT23-8	Programmable Output Voltage: 0.7625V to 1.55V in 12.5mV steps; Default 1.05V output voltage
SY20214QDC	2.5	5.5	4	1.25	0.6	$\pm 1.5\%$	75/55	18	QFN3 $\times$ 3-16	Power Good Indicator
SY20217DQDC	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current
SY20217FQDC	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch-off OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current
SY20216DFC	2.7	5.5	4	3	0.6	$\pm 1.5\%$	35/15	60	DFN2 $\times$ 2-8	Power Good Indicator
SY20904SYC	2.5	6	4	2.4	0.6	$\pm 1.5\%$ (-40~125°C)	25/17	23	DFN2 $\times$ 2-7	Auto Discharge, hic-cup SCP
NEW										
SY20054DQC	2.4	5.5	4	2.2	0.6	$\pm 1\%$	35/25	16	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge, PFM Mode

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

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY20235QUC	2.5	5.5	5	2	0.6	$\pm 1.5\%$	55/35	18	QFN2 $\times$ 1.5-8	Power Good Indicator
SY20906SYC	2.5	6	6	1	0.6	$\pm 1.5\%$ (-40~125°C)	22/12	23	DFN2 $\times$ 2-7	Auto Discharge, hic-cup SCP
SY20218DBC	2.7	5.5	6	1	0.6	$\pm 1.5\%$	50/40	150	DFN3 $\times$ 3-10	Power Good Indicator, EXT SS
SY20246DFC	2.7	6.5	6	1.2	0.6	$\pm 1.5\%$	38/15	60	DFN2 $\times$ 2-8	Power Good Indicator, OCP/UVLO/OTP
SY20257KPKC	2.5	5.5	6	2.4		$\pm 1.5\%$	28/17	65	CSP1.56 $\times$ 1.96-20	Power Good Indicator, I ² C Programmable V_{OUT} : 0.7125V~1.5V in 12.5mV steps, ADDR: 1000001x
SY20238DFC	2.75	6	6	1.2	0.6	$\pm 1.5\%$	35/15	60	DFN2 $\times$ 2-8	Power Good Indicator, OCP/UVLO/OTP protections
SY20277QQC	2.7	5.5	12	1.5		$\pm 1\%$	12/6	95	QFN3 $\times$ 3-12	Programmable Output Voltage: 0.6V to 1.5V in 11mV steps
SY20183LDEC*	2.5	5.5	0.6	2.25	0.6	$\pm 1.5\%$	300/200	50	DFN2 $\times$ 2-6	
SY20018AAC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	40	SOT23-5	
SY20018LACC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	40	TSOT23-5	
SY20041DEC*	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	200/150	50	DFN2 $\times$ 2-6	
SY20051ADQC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	230/150	40	DFN1.5 $\times$ 1.5-6	
SY20061ADEC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	60	DFN2 $\times$ 2-6	Auto Discharge
SY20075LABC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	250/200	90	SOT23-6	Power Good Indicator
SY20081AAC*	2.5	5.5	1	2	0.6	$\pm 2\%$	260/170	40	SOT23-5	
SY20122BDQC*	2.5	5.5	1.5	1.5	0.6	$\pm 2\%$	210/130	60	DFN1.5 $\times$ 1.5-6	
SY20183DEC*	2.5	5.5	1.5	2.25	0.6	$\pm 1.5\%$	200/150	50	DFN2 $\times$ 2-6	Ext Mode
SY20122EABC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	/	SOT23-6	Power Good Indicator, Force PWM
SY20133LDLC*	2.7	5.5	2	1	0.6	$\pm 2\%$	120/90	55	DFN2 $\times$ 2-8	Power Good Indicator
SY20159PABC*	2.7	6.5	2	1	0.6	$\pm 2\%$	125/95	55	SOT23-6	Power Good Indicator, Non-latch off OVP
SY20159AAC*	2.7	6.5	2	1	0.6	$\pm 2\%$	125/95	55	SOT23-5	3A Peak Load Current
SY20149AAAC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	55	SOT23-5	Non latch off protection
SY20149AAC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	55	SOT23-5	Latch off protection
SY20162ABC*	2.7	5.5	2.5	1	0.6	$\pm 2\%$	100/80	80	SOT23-6	Power Good Indicator
SY20162EABC*	2.7	5.5	2.5	1	0.6	$\pm 2\%$	100/80	/	SOT23-6	Power Good Indicator, Force CCM

* Not recommended for new design

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

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY20113DFC*	2.7	5.5	3	1	0.6	$\pm 2\%$	110/80	55	DFN2x2-8	Power Good Indicator, Latch SCP/OVP
SY20113EDFC*	2.7	5.5	3	1	0.6	$\pm 2\%$	110/80	-	DFN2x2-8	Power Good Indicator, Force CCM
SY20113FDFC*	2.7	5.5	3	1	0.6	$\pm 1.5\%$	110/80	/	DFN2x2-8	Power Good Indicator
SY20133GDFC*	2.7	5.5	3	1	0.6	$\pm 1.5\%$	110/80	55	DFN2x2-8	Power Good Indicator, Latch SCP/OVP
SY20194AQDC*	2.7	5.5	3	1.25	0.6	$\pm 2\%$	75/55	18	DFN3x3-16	Power Good Indicator
SY20207LQDC*	2.5	5.5	3	1.25	0.6	$\pm 2\%$	75/55	18	QFN3x3-16	Power Good Indicator
SY20153QUC*	2.5	5.5	3.5	2	0.6	$\pm 1.5\%$	55/35	18	QFN2x1.5-8	Power Good Indicator
SY20217QDC*	2.5	5.5	4	1	/	/	70/40	30	QFN3x3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP
SY20217BQDC*	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3x3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current

* Not recommended for new design

Dual Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY20313ADBC	2.5	5.5	1A x2	2	0.6	$\pm 2\%$	220/180	35	DFN3x3-10	Individual EN
SY20311AIC	2.5	5.5	1A x2	1.5	0.6	$\pm 2\%$	260/180	45/55	TSOT23-8	Individual EN
SY20321AIC	2.5	5.5	2A x2	2	0.6	$\pm 2\%$	125/100	35/45	TSOT23-8	Individual EN
SY20334DCC	2.7	5.5	3A x2	1.5	0.6	$\pm 2\%$	105/85	80	DFN3x3-12	Individual EN
SY20341SAC	2.5	5.5	1A/1.5A	2	0.6	$\pm 2\%$	125/100	45	DFN2x1.5-8	Individual EN
SY20341BSAC	2.3	5.5	1Ax2	2	0.6	$\pm 2\%$	125/100	45	DFN2x1.5-8	Individual EN

Single Output Step down (Buck) Converter V_{IN} Max > 7V

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY21019ABC	5	40	0.3	2	0.6	$\pm 2.0\%$	2000/-	160	SOT23-6	
SY21034ADC	4.5	100	0.6	0.2	0.6	$\pm 1.0\%$	1000/-	100	TSOT23-6	Hic-cup SCP
SY21034BADC	4.5	100	1.2	0.2	0.6	$\pm 1.0\%$	1000/-	100	TSOT23-6	Hic-cup SCP
SY21035FCC	7	100	0.6	0.2~0.6	1.225	$\pm 2.0\%$	500/285	/	SO8E	Programmable Switching Frequency
SY21031ABC	4.5	50	0.8	1.2	0.6	$\pm 1.0\%$	700/-	150	SOT23-6	
SY21041ABC	4.5	27	1	0.5	0.6	$\pm 2.0\%$	350/150	400	SOT23-6	
SY21041CABC	4.5	27	1	1.15	0.6	$\pm 2.0\%$	350/150	400	SOT23-6	Force CCM
SY21036ABC	4.5	40	1	2	0.8	$\pm 1.0\%$	380/180	18	SOT23-6	Hic-cup SCP
SY21051FCC	7	100	1	0.2~1	1.2	$\pm 2.0\%$	500/240	400	SO8E	Programmable Switching Frequency
SY21053FCC	7	100	1	0.2~0.6	1.225	$\pm 2.0\%$	500/240	/	SO8E	Programmable Switching Frequency
SY21061ABC	5	40	1.2	0.8	0.6	$\pm 2.0\%$	180/-	160	SOT23-6	
SY21061FABC	9	36	1.2	0.3	0.81	$\pm 2.0\%$	180/-	160	SOT23-6	
SY21052AFCC	7	85	1.2	0.2~0.5	1.2	$\pm 2.0\%$	500/240	/	SO8E	Programmable Switching Frequency /FCCM, 1.2A Continuous/1.8A Peak Output Current Capability
SY21052FCC	7	85	1.2	0.2~0.5	1.2	$\pm 2.0\%$	500/240	400	SO8E	Programmable Switching Frequency, 1.2A Continuous/1.8A Peak Output Current Capability
SY21042ADC	4.5	28	1.7	0.5	0.6	$\pm 2.0\%$	350/150	400	TSOT23-6	Cycle-by-cycle Valley Current Limitation
SY21072IABC	4.2	18	2	0.5	0.6	$\pm 1.5\%$	130/105	200	SOT23-6	Hic-cup SCP
SY21072E1ABC	4.5	18	2	0.5	0.6	$\pm 1.5\%$	130/105	/	SOT23-6	FCCM, Hic-cup SCP
SY21081B1ABC	4.5	18	2	1.4	0.6	$\pm 1.5\%$	130/105	/	SOT23-6	Hic-cup SCP, FCCM
SY21081C1ABC	4.2	18	2	1.2	0.6	$\pm 1.5\%$	130/105	250	SOT23-6	Hic-cup SCP
SY21082ABC	4.2	18	2	0.5	0.6	$\pm 1.5\%$	130/105	200	SOT23-6	Hic-cup SCP
SY21087FAC	4.5	23	2	0.5	0.6	$\pm 1.5\%$	150/110	400	SO8	EXT SS, Hic-cup SCP
SY21102ABC	5	40	2	0.8	0.6	$\pm 2.0\%$	180/-	160	SOT23-6	
SY21142FCC	4.5	60	2	0.1~1	0.8	$\pm 1.0\%$	175/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency
SY21252FCC	4.5	100	2	0.1~1	0.8	$\pm 1.0\%$	175/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency
SY21253FCC	4.5	100	3	0.1~0.5	0.8	$\pm 1.0\%$	150/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency
SY21113C1ADC	4.2	18	3	1.2	0.6	$\pm 1.5\%$	80/40	270	TSOT23-6	Hic-cup SCP, Output Auto Discharge

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

Part Number	V_{IN}		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY21113DAIC	4.5	18	3	0.5	0.6	$\pm 1.5\%$	80/40	100	TSOT23-8	Power Good Indicator, Hic-cup SCP, EXT SS
SY21113IADC	4.2	18	3	0.5	0.6	$\pm 1.5\%$	80/40	200	TSOT23-6	Hic-cup SCP
SY21113B1ADC	4.5	18	3	1.4	0.6	$\pm 1.5\%$	80/40	/	TSOT23-6	Hic-cup SCP
SY21113E1ADC	4.5	18	3	0.5	0.6	$\pm 1.5\%$	80/40	/	TSOT23-6	FCCM, Hic-cup SCP
SY21114ADC	4.2	18	3	0.5	0.6	$\pm 1.0\%$	80/40	250	TSOT23-6	Hic-cup SCP, Output auto discharge
SY21114EADC	4.2	18	3	0.6	0.6	$\pm 1.0\%$	80/40	/	TSOT23-6	Hic-cup SCP, Output auto discharge
SY21147FCC	4.5	23	3	0.5	0.6	$\pm 1.5\%$	130/90	400	SO8E	EXT SS
SY21143ADC	4.5	23	3	0.5	0.6	$\pm 1.5\%$	105/50	100	TSOT23-6	Hic-cup SCP
SY21143AIC	4.5	23	3	0.5	0.6	$\pm 1.5\%$	105/50	100	TSOT23-8	Power Good Indicator, EXT SS, Hic-cup SCP
SY21154AIC	4.5	30	3	0.5~2.5	0.6	$\pm 1.5\%$	110/70	19	TSOT23-8	Hic-cup SCP
SY21163FCC	5	40	3	0.8	0.6	$\pm 2.0\%$	180/-	160	SO8E	
SY21153AAIC	4.5	40	3	0.5~2.5	0.6	$\pm 1.5\%$	110/70	18	TSOT23-8	
SY21173FCC	4.5	60	3	0.1~0.5	0.8	$\pm 1.0\%$	150/-	100	SO8E	Adjustable switching frequency range: 100kHz ~500kHz, hic-cup SCP
SY21174IADC	4.2	18	4	0.5	0.6	$\pm 1.5\%$	55/36	200	TSOT23-6	Hic-cup SCP
SY21144RAC	4	23	4	0.6	0.6	$\pm 1.0\%$	85/35	130	QFN3 $\times$ 3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY21145RAC	4	23	4	0.5	0.6	$\pm 1.0\%$	85/35	121	QFN3 $\times$ 3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY21145BRAC	4	23	4	0.6	Fixed 3.338	$\pm 1.0\%$	85/35	80	QFN3 $\times$ 3-20	Power Good Indicator, Output Discharge,SCP/OVP,UVLO
SY21145CRAC	5.5	23	4	0.6	Fixed 5.1	$\pm 1.0\%$	85/35	115	QFN3 $\times$ 3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY21195IADC	4.5	18	5	0.5	0.6	$\pm 1.5\%$	41/27	250	TSOT23-6	
SY21211DNC	4.5	30	5	0.5	0.6	$\pm 1.5\%$	70/40	200	DFN3 $\times$ 4-12	Power Good Indicator, EXT SS
SY21211FCC	4.5	30	5	0.5	0.6	$\pm 1.5\%$	70/40	200	SO8E	EXT SS
SY21197ADC	4.5	18	6	0.4	0.6	$\pm 1.0\%$	29/19	200	TSOT23-6	Output Auto Discharge, SCP
SY21138RHC	4.5	24	6	0.5	0.6	$\pm 1.0\%$	38/19	100	QFN2.5 $\times$ 2.5-16	Power Good Indicator, Output Discharge, Latch-off UVP/OVP/OTP
SY21138ARHC	4.5	24	6	0.6	0.6	$\pm 1.0\%$	38/19	100	QFN2.5 $\times$ 2.5-16	Power Good Indicator, Output Discharge, Hic-cup UVP
SY21138BRHC	4.5	24	6	0.6	Fixed 3.338	$\pm 1.0\%$	36/18	75	QFN2.5 $\times$ 2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21215QNC	4	28	6	0.8	0.6	$\pm 1.5\%$	40/20	100	QFN3 $\times$ 3-10	Power Good Indicator, Latch-off SCP/OVP, 12A Peak Current Capability, Programmable peak current limit

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

Part Number	V_{IN}		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
SY21215AQQC	4	28	6	0.8	0.6	±1.5%	40/20	100	QFN3x3-12	Power Good Indicator, Hic-cup SCP/OVP, 12A Peak current capability, programmable peak current limit
SY21215HQQC	4	28	6	0.8	0.6	±1.5%	40/20	100	QFN3x3-12	Power Good Indicator, Hic-cup SCP, 12A Peak current capability, programmable peak current limit
SY21215KQQC	4	28	6	0.5	0.6	±1.5%	40/20	100	QFN3x3-12	Power Good Indicator, Hic-cup SCP, 12A peak current capability, programmable peak current limit
SY21243RHC	4.5	24	8	0.5	0.6	±1.0%	30/15	100	QFN2.5x2.5-16	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY21243ARHC	4	24	8	0.6	0.6	±1.0%	20/10	140	QFN2.5x2.5-16	Power Good Indicator, Hic-cup UVP, Output discharge
SY21243BRHC	4.5	24	8	0.6	Fixed 3.338	±1.0%	30/15	75	QFN2.5x2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21243B3RHC	4	24	8	0.6	Fixed 3.338	±1.0%	20/10	85	QFN2.5x2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21243C3RHC	5.5	24	8	0.6	Fixed 5.1	±1.5%	20/10	85	QFN2.5x2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21243D3RHC	4	24	8	0.5	0.6	±1%	20/10	140	QFN2.5x2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21228AQQC	4	28	8	0.8	0.6	±1.0%	20/10	100	QFN3x3-12	Power Good Indicator, Hic-cup SCP, 16A Peak current capability, programmable output current limit
SY21228LQQC	4.5	28	8	0.5	0.6	±1.0%	20/10	100	QFN3x3-12	Power Good Indicator, OVP
SY21245RBC	4	40	8	0.35/ 0.5	0.6	±1.0%	25/12	60	QFN3.5x3.5-20	Power Good Indicator, programmable soft-start & valley current limit, hic-cup SCP, selectable switching frequency
SY21240RAC	4	24	9	0.6	0.6	±1.0%	27/9	85 in S3 125 in S0	QFN3x3-20	Power Good Indicator, 9A continuous/14A peak current capability, Latch-off UVP/OVP, ±1A Source/Sink Current Capability of the VTT LDO
SY21240DRAC	4	24	9	0.6	0.6	±1.0%	27/9	65 in S3 110 in S0	QFN3x3-20	Power Good Indicator, 9A Continuous/12A Peak Current Capability, Latch-off UVP/OVP, ±1A Source/Sink Current Capability of the VDDQ LDO
SY21247CTMC	5.5	23	10	0.6	Fixed 5.15	±1.5%	18/8	110	QFN3x4-13	Power Good Indicator, OVP/SCP
SY21246BTMC	4	24	10	0.6	Fixed 3.36	±1.0%	18/8	85	QFN3x4-13	Power Good Indicator, Latch-off Protection, Auto-discharge
SY21249TMC	4	24	11	0.5	0.6	±1.0%	17/7.5	140	QFN3x4-13	Power Good Indicator, Latch-off UVP/OVP, Output discharge
SY21249C1TMC	5.5	24	11	0.6	Fixed 5.15	±1.5%	17/7.5	110	QFN3x4-13	Power Good Indicator, Latch-off UVP/OVP, Output Discharge
SY21712VDC	2.7	16	12	0.6/ 0.8/1	0.6	±1.0% (-40~125°C)	12.6/4.3	650	QFN3x4-19	Power Good Indicator; Remote sense, Seamless ILMT, Pre-bias startup, FCCM/PFM, Hic-cup SCP, Programmable Soft-start Time
SY21720VDC	2.9	16	20	0.6/ 0.8/1	0.6	±1.0% (-40~125°C)	7.5/2.4	550	QFN3x4-19	Power good Indicator; Remote sense, Seamless ILMT, Pre-bias startup, FCCM/PFM, Hic-cup SCP, Programmable Soft-start Time
SY21072B1ABC*	4.5	18	2	0.5	0.6	±2.0%	130/120	400	SOT23-6	
SY21081ABC*	4.5	18	2	1	0.6	±2.0%	170/160	400	SOT23-6	
SY21081BABC*	4.35	18	2	1.2	0.6	±2.0%	170/160		SOT23-6	1.2MHz, FCCM

* Not recommended for new design

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

Part Number	V_{IN}		I_{OUT} (Max) (A)	F_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY21081CABC*	4.5	18	2	1.2	0.6	$\pm 2.0\%$	130/120	400	SOT23-6	
SY21081DEC*	4.5	18	2	1	0.6	$\pm 2.0\%$	170/160	400	DFN2×2-6	
SY21092DBC*	4.5	23	2	0.5	0.6	$\pm 1.5\%$	150/110	400	DFN3×3-10	Power Good Indicator, EXT SS, Hic-cup SCP
SY21113BADC*	4.5	18	3	0.5	0.6	$\pm 1.5\%$	80/40	100	TSOT23-6	Hic-cup SCP
SY21113CADC*	4.5	18	3	1	0.6	$\pm 1.5\%$	80/40	100	TSOT23-6	Hic-cup SCP
SY21113GADC*	4.5	18	3	0.5	0.6	$\pm 1.5\%$	80/40	100	TSOT23-6	Hic-cup SCP, FCCM
SY21123ADBC*	4.5	23	3	1	0.6	$\pm 1.5\%$	120/85	400	DFN3×3-10	Power Good Indicator, EXT SS
SY21152FCC*	4.5	30	3	0.5	0.6	$\pm 1.5\%$	80/50	200	SO8E	Power Good Indicator, EXT SS
SY21133DBC*	4.5	23	3	0.5	0.6	$\pm 1.5\%$	120/85	400	DFN3×3-10	Power Good Indicator, EXT SS, Hic-cup SCP
SY21174AADC*	4.5	18	4	0.5	0.6	$\pm 1.5\%$	50/30	100	TSOT23-6	Instant PWM architecture
SY21174ADC*	4.5	18	4	0.5	0.6	$\pm 1.5\%$	50/30	100	TSOT23-6	
SY21195AADC*	4.5	18	5	0.5	0.6	$\pm 1.5\%$	40/20	100	TSOT23-6	Instant PWM architecture
SY21195ADC*	4.5	18	5	0.5	0.6	$\pm 1.5\%$	50/30	100	TSOT23-6	
SY21236RAC*	4	23	6	0.5	0.6	$\pm 1.0\%$	38/19	120	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY21236ARAC*	4	23	6	0.6	0.6	$\pm 1.0\%$	38/19	120	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Hic-cup SCP
SY21236BRAC*	4	23	6	0.6	Fixed 3.37	$\pm 1.5\%$	38/19	75	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY21236CRAC*	5.5	23	6	0.6	Fixed 5.1	$\pm 1.5\%$	38/19	108	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY21248ARAC*	4	23	8	0.6	0.6	$\pm 1.0\%$	22/11	120	QFN3×3-20	Power Good Indicator, Output Discharge, Hic-cup SCP
SY21248BRAC*	4	23	8	0.6	Fixed 3.37	$\pm 1.5\%$	22/11	75	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY21248CRAC*	5.5	23	8	0.6	Fixed 5.1	$\pm 1.5\%$	22/11	108	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY21248RAC*	4	23	8	0.5	0.6	$\pm 1.0\%$	30/10	105	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY21241AQVC*	4	28	10	0.6	0.6	$\pm 1.5\%$	25/8	300	QFN4×3-19	Power Good Indicator, Memory power, 10A VDDQ/2A VTT LDO, 16A Peak Current capability, Latch off UVP/OVP, Over temperature alert
SY21241DQVC*	4	28	10	0.6	0.6	$\pm 1.5\%$	25/8	300	QFN4×3-19	Power Good Indicator, Memory Power, 10A VDDQ/1A VTT LDO, 16A Peak Current Capability, Latch-off UVP/OVP, Over temperature alert
SY21247TMC*	4	23	10	0.5	0.6	$\pm 1.0\%$	28/8	100	QFN3×4-13	Power Good Indicator, Latch-off OVP/SCP
SY21262QCC*	4	18	12	0.2~1	0.6	$\pm 1.0\%$	18/6	/	QFN4×4-20	Power Good Indicator

* Not recommended for new design

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

Part Number	V _{IN}		I _{LIM} (A)	F _{SW} (MHz)	V _{OUT} (Max) (V)	Sync Boost	Fixed Output Voltage (V)	V _{FB} / Accuracy	Quiescent Current Input (μA)	Quiescent Current output (μA)	MOSFET R _{on} (H/L)(mΩ)	Feature/ Special Function	Package
SY20417AAC	0.7	5	0.35	/	/	✓	3.3	/	0.5	5.5	700/500	Pass-through Function@ Shutdown	SOT23-5
SY20417AAAC	0.7	5	0.35	/	/	✓	3	/	0.5	5.5	700/500		SOT23-5
SY20418AHC	0.7	5	0.35	/	5.25	✓	/	1.0V±3%	0.5	5	700/500	Pass-through Function@ Shutdown	SOT-363
SY20418AAHC	0.7	5	0.35	/	/	✓	5	/	0.5	7	500/400	Pass-through Function@ Shutdown; OVP	SOT-363
SY20492DABC	0.85	5.5	0.6	1	5.5	✓	/	0.5V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY20419SUD	1.8	5.5	1	1	5.5	✓	/	1.2V±1.5%	/	/	125/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP, CCM Only	DFN2×1.5-6
SY20492AABC	0.85	5.5	2	1	5.5	✓		1.2V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY20492ABC	1.8	5.5	2	1	5.5	✓		1.2V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY20493SUC	0.85	5.5	2	1	5.5	✓	/	1.2V±1.5%	0.7	5	125/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	DFN2×1.5-6
SY20433QMC	1.8	5.25	3	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/36	Output Disconnect @Shutdown	QFN2×2-10
SY20489ADC	2.5	5.5	3	1	5.5	✓	/	1.2V±1.5%	8	32	90/50	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	TSOT23-6
SY20489BADC	2.5	5.5	3	1	5.5	✓	/	1.2V±1.5%	8	32	90/50	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	TSOT23-6
SY20489CUMC	2.5	5.5	3	1	5.6	✓	/	1.2V±1.5%	8	32	100/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	CSP1.54×0.9-6
SY20445QMC	1.8	5.25	5	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Auto Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY20445AQMC	1.8	5.25	5	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	No Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY20496QMC	2	5.5	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Selectable Forced PWM Mode, Programmable Output Current Limit, OVP	QFN2×2-10
SY20466QMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Auto Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY20466AQMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	No Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY20466BQMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Selectable Forced PWM Mode, OVP	QFN2×2-10
SY20411LAHC*	0.7	5	0.2	/	5.25	✓	/	0.5V±3%	0.5	18	800/450	Pass-through Function@ Shutdown; OVP	SOT-363
SY20411AHC*	0.7	5	0.4	/	5.25	✓	/	0.5V±3%	0.5	18	800/450	Pass-through Function@ Shutdown; OVP	SOT-363
SY20428ABC*	0.9	4	1.8	1.2	4	✓	/	1.2V±3%	65	/	200/90	Output Disconnect @Shutdown	SOT23-6
SY20508DGC*	2.3	5.25	3	1	5.5	✓		1.2V±1.5%	2	30	85/70	OVP	DFN2×3-8
SY20508EDGC*	2.3	5.25	3	1	5.5	✓	/	1.2V±1.5%	/	/	85/70	FCCM, OVP	DFN2×3-8

* Not recommended for new design

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

Part Number	V _{IN}		I _{LIM} (A)	F _{SW} (MHz)	V _{OUT} (Max) (V)	Sync Boost	V _{FB} / Accuracy	Input Quiescent Current (μA)	MOSFET (Ron H/L) (mΩ)	Feature/ Special Function	Package
SY21199CABC	3	25	0.6	1	25		0.6V±2%	100	-/150	Internal SS/Comp	SOT23-6
SY21212AABC	3	8	2	1	16		0.6V±2%	100	-/130	Internal SS/Comp	SOT23-6
SY21218LABC	3	25	2	1	25		0.6V±2%	100	-/150	Internal SS/Comp	SOT23-6
SY21222ABC	3	33	2	1	33		0.6V±2%	100	-/200	Internal SS/Comp	SOT23-6
SY21238ABC	3.5	30	2	0.85	30		1V±2%	150	-/200	Accurate input current limit	SOT23-6
SY21242ABC	2	6	2.5	1	6		0.6V±2%	200	-/120	Internal SS/Comp	SOT23-6
SY21251DCC	2.5	5.5	2.5	1	6		0.6V±2%	200	-/120	Internal SS, with 2A 80mΩ Load Switch	DFN3×3-12
SY21264ADBC	2	6	4	1	6		0.6V±2%	100	-/90	Internal SS/Comp	DFN3×3-10
SY21275DBC	8.6	15.9	4.5	0.5	16		1.25V±1.5%	120	-/75	Adjustable soft-start time, OVP	DFN3×3-10
SY21282QDC	3	9	6	1	13	✓	1V±2%	600	40/80	Power Good Indicator, Integrated 40mΩ Disconnection FET, True Shutdown	QFN3×3-16
SY21299DBC	3	5.5	9	/	36		1.25V±2%	380	-/65	EXT Comp	DFN3×3-10
SY21305ARDC	3	16	15	0.25~1	16	✓	1V±1.5%	230	12/9	Power Good Indicator, Integrated 12mΩ Disconnection FET, Internal SS, OVP/SCP/ True shutdown Programmable Switching Frequency: 0.25~1MHz	QFN4×4-18
SY21314DBC	3	33	4	1	33		0.6V±2%	100	-/120		QFN3×3-10
SY21225RDC	4.5	30	15	0.2~1	30	✓	1V±1.5%	230	18/16	Integrated 18mΩ Disconnect ion FET, OVP/OTP/SCP, True Shutdown, Programmable Switching Frequency: 0.2~1MHz, Power Good Indicator	QFN4×4-18
SY21306RAC	2.8	16	2~10	0.3~2	16	✓	1V±1%	200	20/10	PFM/PWM light load operation mode, Programmable Switching Frequency: 0.3~2MHz, Programmable I _{LIM} : 2~10A, OVP	QFN3×3-20

DC-DC PWM Controller (External Switch)

Part Number	V _{IN}		F _{SW} (MHz)	V _{REF} (V)	Function	Package
SY21401DBC	3	25	0.5	1	Current mode DC/DC controller targeted for Boost, SEPIC, Flyback and Forward applications with DC Input Current Limit	DFN3×3-10
SY21412AFHC	3	25	0.3	1	Current mode DC/DC controller targeted for both Boost and SEPIC applications with DC Output Current Limit	SOP10

Step Up/Down Regulator (Power Switch Integrated)

Part Number	V _{IN} Min Max (V) (V)		I _{LIM} (A)	F _{SW} (MHz)	V _{OUT} (max) (V)	V _{FB} / Accuracy	Input Quiescent Current (μA)	MOSFET Ron (H/L) (mΩ)	θ ² C	Feature/ Special Function	Package
SY20518QOC	2.6	5.5	2	1	3.8	0.6V±1.5%	60	50/50		Output Disconnect @Shutdown	QFN2×3-13
SY20516ADPC	2.6	5.5	1.2	1	3.8	0.6V±1.5%	60	100/100		Output Disconnect @Shutdown	DFN3×3-14
SY21612QFC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	310	25/25	√	Selectable Inductor Current Limit and VBUS Output Current Limit Selectable VBUS Output Voltage:5V, 7V, 9V, 12V, 15V, 20V	QFN4×4-32
SY21612BQFC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	310	25/25	√	Selectable Inductor Current Limit and VBUS Output Current Limit Selectable VBUS Output Voltage:5V, 9V, 10V, 12V, 15V, 20V	QFN4×4-32
SY21612CQFC	4	28	Programmable 6A/10A	0.25/0.5	28	1V±1.5%	300	25/25		Programmable Output Current Limitation with Ext. Sensing Resistor	QFN4×4-32
SY21618QEC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	450	19/19		VBUS Output Voltage can be Configured in 0.1V per Step from 3.6V to 21V Selectable Inductor Current Limit and Output Current Limit	QFN5×5-32

LDO Regulator

Part Number	V _{IN} (Min)(V)	V _{IN} (Max)(V)	V _{OUT} (V)	I _{OUT} (A)	Dropout Voltage (mV)	Package	Function
SY20714AAC	3.6	30	3.3	0.05	100	SOT23-5	Reverse Blocking Function
SY20704DEC	2.3	30	Adjustable	0.15	300	DFN2×2-6	Reverse Blocking Function
SY20704AAC	2.3	30	Adjustable	0.15	300	SOT23-5	Reverse Blocking Function
NEW SY20704ZDED	2.5	30	Adjustable	0.15	150	DFN2×2-6	LDO Reg.
SY20725AAC	4	40	Adjustable	0.3	300	SOT23-5	LDO Reg.
SY20733BSCC	0.8	5.5	Adjustable	0.5	90	DFN1.2×1.2-6	Current Limiting Protection, Auto-discharge
SY20731DSC	1.6	5.5	Adjustable	1	0.32V @ I _{OUT} =1A, V _{OUT} =1.5V 0.18V @ I _{OUT} =1A, V _{OUT} =2.8V	DFN3×3-6	Current Limiting Protection, Auto-discharge
SY20731BAJC	1.6	5.5	3.3	1	200	SOT223	Current Limiting Protection
SY20728JBC	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO252-5	Zero-current Shutdown Mode; Output Short Circuit Protection
SY20728MAC	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO263-5	Zero-current Shutdown Mode; Output Short Circuit Protection
SY20728BMAB	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO263-5	Zero-current Shutdown Mode
SY20703MAC	3	55	Adjustable	3	0.45V @ Full Load 3A	TO263-5	Zero-current Shutdown Mode
SY20735DBC	2.375	3.5	Adjustable	3	/	DFN3×3-10	Sink and Source DDR Termination Regulator
NEW SY20735BTDD	2.375	3.5	Adjustable	2	/	DFN2×2-10	Sink and Source DDR Termination Regulator

Protection Switch

Part Number	Package	Enable Logic	OC	OV	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY20808AAAC	SOT23-5	H	✓		1	2.5~5.5	0.6	80	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808BAAC	SOT23-5	L	✓		1	2.5~5.5	0.6	80	Output discharge at shutdown Reverse Blocking, OCB indicator
SY6811PDC	CSP0.9×0.9-4	H			1	1.05~1.95	1	45@V _{IN} =1.2V 35@V _{IN} =1.8V	Auto output cap discharge function, ultra low input voltage
SY6829PRC	CSP0.79×0.79-4	H		✓	1	2.5~6	1	96	Precise clamping output voltage
SY6819AFAC	SO8	H	✓		1	4.5~18	1.2	110@V _{IN} =12V	Programmable blanking time for DFF control, Default Off when EN ON
SY6819FAC	SO8	H	✓	✓	1	4.5~18	1.2	110@V _{IN} =12V	Programmable blanking time for DFF control, Default On when EN ON
SY6829BPRC	CSP0.79×0.79-4	H			1	1.8~5.5	1.5	80	Independent ON/OFF Control Input
SY6280DAAT	SOT23-5	H	✓		1	2.5~5.5	0.1~2	65	Programmable current limit, reverse blocking
SY6280AAAC	SOT23-5	H	✓		1	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking
SY20801AAAC	SOT23-5	L	✓		1	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking
SY20808C20AAC	SOT23-5	H	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808D20AAC	SOT23-5	L	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator
SY6882ADFC	DFN2×2-8	H		✓	1	3~23	2	100	Fixed internal OVP@7.1V, Thermal Shutdown Protection & Auto Recovery
SY6882BDFC	DFN2×2-8	H		✓	1	3~23	2	100	Programmable OVP Threshold Thermal Shutdown Protection & Auto Recovery
SY6883ABC	SOT23-6	H		✓	1	3~23	2	100	Programmable OVP Threshold Thermal Shutdown Protection & Auto Recovery
SY20807CABC	SOT23-6	H	✓		1	2.5~5.5	2	65	TUV/CB, UL Certificate
SY20807BDEC	DFN2×2-6	L	✓		1	2.5~5.5	0~2	65	High accurate programmable current limit, reverse blocking
SY20807CDEC	DFN2×2-6	H	✓		1	2.5~5.5	0~2	65	High accurate programmable current limit and reverse blocking, TUV/CB, UL Certificate
SY20807ZDEC	DFN2×2-6	H	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20807LABC	SOT23-6	H	✓		1	2.5~5.5	2	65	Adjustable Current Limit up to 2.0A, OCP/OTP with Latch Off Function
SY20806APAC	CSP0.78×0.78-4	H			1	1.05~5.5	2	37@V _{IN} =5V 38@V _{IN} =3.3V 43@V _{IN} =1.8V	load switch with controlled slew rate
NEW SY20806GPAC	CSP0.78×0.78-4	L			1	1.05~5.5	2	37@V _{IN} =5V 38@V _{IN} =3.3V 43@V _{IN} =1.8V	Load Switch with Controlled Slew Rate
SY6829APRC	CSP0.79×0.79-4	H			1	1.8~5.5	2	95	Ultra low quiescent current for IoT application
SY20808C7AAC	SOT23-5	H	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808D7AAC	SOT23-5	L	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808C5CAC	MSOP8	H	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator

Protection Switch

Part Number	Package	Enable Logic	OCp	OVP	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY20808D5CAC	MSOP8	L	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20809LACC	TSOT23-5	H	✓		1	2.4~6	2.5	80	Programmable Current limit
SY6280CAAT	SOT23-5	H	✓		1	2.5~5.5	0.1~2.5	65	Programmable current limit, reverse blocking
SY20808F3ABC	SOT23-6	H	✓		1	2.5~5.5	0~3	45	programmable current limit and reverse blocking
SY20808E1AAC	SOT23-5	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808E2AAC	SOT23-5	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20808F2ABC	SOT23-6	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator
SY20809ACC	TSOT23-5	H	✓		1	2.4~6	3	50	Output discharge at shutdown Reverse Blocking, OCB indicator
SY6283ADRC	DFN1.2×1.6-4	H	✓		1	2.5~5.5	3	60	Output discharge at shutdown Reverse Blocking
SY6283DRC	DFN1.2×1.6-4	H	✓		1	2.5~5.5	3	60	Reverse blocking output, ultra low input voltage
SY6813PEC	6 ball CSP	H			1	1.2~5.5	3	22	Auto output cap discharge function
SY6813APEC	6 ball CSP	H			1	1.2~5.5	3	22	No output cap discharge function
SY6821AAC	SOT23-5	H			1	0.6~3.6	3	45	Programmable turn-on delay, Automatic shutdown discharge
SY6861A1AAC	SOT23-5	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861B1ABC	SOT23-6	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861A2AAC	SOT23-5	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861B2ABC	SOT23-6	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6863B2ABC	SOT23-6	L	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY6863B3ABC	SOT23-6	H	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY6863B4ABC	SOT23-6	L	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY20802UGC	CSP1.50×1.64-12	H	✓	✓	1	3~18	3	45	OCp/TSd/OVP Protection; Auto-recovery; Programmable current limit, Reverse blocking
SY20802BUGC	CSP1.50×1.64-12	H	✓	✓	1	3~18	3	45	OCp/TSd/OVP Protection; Auto-recovery; Programmable current limit
SY6821ADQC	DFN1.5×1.5-6	H			1	0.6~3.6	4	16	Programmable turn-on delay & Automatic shutdown discharge
SY20823DFC	DFN2×2-8	H			2	0.6~5.5	4	28	Programmable turn-on delay & ramp-up time, integrated OTP SCP
SY20834DBC	DFN3×3-10	H	✓	✓	1	2.5~30	4	50	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY20805PLC	CSP1.73×1.73-12	H		✓	1	2.5~30	5	R _{PWPT} =53mΩ (typ.)	Programmable OVP with Integrated Reverse Blocking FET, accurate current level indicator

Protection Switch

Part Number	Package	Enable Logic	OCP	OVP	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY20845ADBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY6875CDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY6875DDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/9V selectable clamping output
SY6875FDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	50	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY20855ADBC	DFN3×3-10	H	✓	✓	1	2.5~12	5	40	Fixed Current Limit, Prog. SS
SY6895CDBC	DFN3×3-10	H	✓	✓	1	2.5~12	5	40	Fixed Current Limit, Prog. SS
SY6884PYC	CSP0.89×1.43-6	H		✓	2	2.5~25	5	30	Programmable Over Voltage Threshold
SY20816AQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap
SY20816BQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap, Programmable Over Current Response Time for HV/5V Power Path, RVS_Mask bit
SY20816CQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap, Programmable Over Current Response Time for HV/5V Power Path, , RVS_Mask bit
SY6880CPGC	CSP1.8×2-12	H		✓	1	2.5~28	5A continuous, 8A peak	38	Fixed internal OVP@6.8V, Reverse block, Surge protection up to 80V
SY6880APGC	CSP1.8×2-12	H		✓	1	2.5~28	5A continous, 8A peak	38	Programmable Over Voltage Threshold from +4V to +7V
SY20825PTC	CSP1.32×1.86-12	H		✓	1	2.5~28	Programmable 5A	R _{PWPT} =32mΩ (typ.)	Programmable Over Voltage Threshold from +4V to +22V
SY6898ERYC	QFN2×2-9	H	✓		1	2.95~6.5	5	30	Selectable Clamping Output Voltage
SY6896RYC	QFN2×2-9	H	✓		1	2.7~5.5	5	30	Programmable high current limit, reverse blocking, VIN state indicate, Selectable Clamping Output
SY20817ATLC	QFN2×2-12	H	✓		1	2.5~16	1~5	30	Programmable OUT Slew Rate
SY6885BQDC	QFN3×3-16	H	✓	✓	1	4~60	5	40	OCP/TSD/OVP Protection, Auto-recovery, Programmable Output Voltage Clamping
SY28876AQSC	QFN3×4-20	H	✓	✓	1	2.7~18	0.6~5.3	42	True reverse blocking, programmable current limit & dV/dt control, power good and fault outputs
SY6234DUC	DFN3×2-14	H	✓		2	0.8~5.5	6	18	Dual-channel, Programmable soft-start time
SY20810DHC	DFN2 × 3-10	H			1	0.6~5.5	10	2.8	Controlled and Adjustable Slew Rate through C _{SST} , PG Indicator

Supervisor & Reset ICs

Part Number	Package	Number of Supplies Monitored	Output Driver/ Reset Output	Threshold Voltage (V)	Delay Time (ms)	Reset Threshold Accuracy	Quiescent Current (μA)	Features
SY20867ADTD	DFN1.45×1-6	1	Active high, Push-pull	Adjustable	Programmable	±1%	9	EN ON delay time programmable
SY20867EDTD	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	EN ON delay time programmable
SY20867FDTC	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	200ns EN ON delay time



Power Module

5V BUS Buck

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	V _{FB} Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20601QUC	2.5	5.5	0.6	3	Adjustable	±2%	80% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN2x1.5-8	1
SY20601AQUC	2.5	5.5	0.6	3	1.2	±2%	-	PFM	QFN2x1.5-8	1
SY20601BQUC	2.5	5.5	0.6	3	1.5	±2%	-	PFM	QFN2x1.5-8	1
SY20601CQUC	2.5	5.5	0.6	3	1.8	±2%	-	PFM	QFN2x1.5-8	1
SY20601DQUC	2.5	5.5	0.6	3	2.5	±2%	-	PFM	QFN2x1.5-8	1
SY20601EQUC	2.5	5.5	0.6	3	3.3	±2%	-	PFM	QFN2x1.5-8	1
SY20681QUC	1.8	5.5	0.6	3	Adjustable	±2%	83% @ 3.3V _{IN} , 1.8V _{OUT}	PFM, Low Iq	QFN2x1.5-8	1
SY20611RCC	2.5	5.5	1.2	3	Adjustable	±2%	79% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN2.5x2-8	1.15
SY20622AQNC	2.7	5.5	2	3	Adjustable	±1.5%	88.7% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN3x3-10	1.1
SY20623AQNC	2.7	5.5	3	3	Adjustable	±1.5%	86% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN3x3-10	1.1
SY20623DAFM	2.5	6	3	2.4	Adjustable	±1%	89% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	MDFN2.5x2-10	1.3
SY20623EAFM	2.5	6	3	2.4	Adjustable	±1%	88% @ 3.3V _{IN} , 1.8V _{OUT}		MDFN2.5×2-10	1.3
SY20624QNC	2.7	5.5	4	3	Adjustable	±1.5%	85% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN3x3-10	2.1
SY20623B1WLQ	2.5	6	4	2.4	Adjustable	±1.5%	86% @ 3.3V _{IN} , 1.8V _{OUT}		QFN2.5×2.5-10	1.3
SY20623C1WLQ	2.5	6	4	2.4	Adjustable	±1.5%	86% @ 3.3V _{IN} , 1.8V _{OUT}		QFN2.5×2.5-10	1.3
SY20616BQLC	2.7	5.5	6	1.5	Adjustable, Default: 1V	±1%	83% @ 3.3V _{IN} , 1V _{OUT}	I ² C	QFN3x4-16	2.1
SY20616B2QLC	2.7	5.5	6	1.5	Adjustable, Default: 0.85V	±1%	83% @ 3.3V _{IN} , 1V _{OUT}	I ² C	QFN3x4-16	2.1
SY20616CQLC	2.7	5.5	6	1.5	Adjustable, Default: 1.5V	±1%	83% @ 3.3V _{IN} , 1V _{OUT}	I ² C	QFN3x4-16	2.1
SY20616DABM	2.7	5.5	6	1.5	Adjustable, Default: 0V	±1%	83% @ 3.3V _{IN} , 1V _{OUT}	I ² C	MQFN3x4-16	2.1

12V BUS Buck

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	V _{FB} Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20651THC	4.5	18	1	2	Adjustable	±2%	85% @ 12V _{IN} , 3.3V _{OUT}	PFM	QFN2.5x2.5-8	2.1

12V BUS Buck

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	V _{FB} Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20654AQLC	5	16.5	1	0.6	Adjustable	±1%	85% @ 12V _{IN} , -5V _{OUT}	Reverse V _{OUT} Buck- Boost	QFN3×4-16	2.1
NEW SY20661AWHQ	4.25	36	1	2.1	Adjustable	±1%	90% @ 12V _{IN} , 3.3V _{OUT}	Low I _Q Design	QFN3×2.5-10	1.75
SY20656ATRC	4.5	18	2	1	Adjustable	±1%	92% @ 12V _{IN} , 5V _{OUT}		QFN3×3-7	2.1
SY20654QLC	5	23	1.5	0.6	Adjustable	±1%	87.5% @ 12V _{IN} , 3.3V _{OUT}		QFN3×4-16	2.1
SY20652QNC	4.5	23	2	1.7	Adjustable	±1.5%	83% @ 12V _{IN} , 3.3V _{OUT}		QFN3×3-10	2.1
SY20653ATRC	4.5	18	3	1	Adjustable	±1%	91% @ 12V _{IN} , 5V _{OUT}		QFN3×3-7	2.1
NEW SY20653B1WGQ	4.7	18	3	1	Adjustable	±1%	89% @ 12V _{IN} , 3.3V _{OUT}	FCCM	QFN2.5×3-16	1.7
SY20653CADM	4.7	18	3	2	Adjustable	±1.875%	85% @ 12V _{IN} , 3.3V _{OUT}		MQFN3×2.8- 8	2
SY20666RLC	4.5	15	5	1.5	Adjustable	±1%	86.5% @ 12V _{IN} , 3.3V _{OUT}	I ² C	QFN5×5-20	2.1
SY20688VVC	4.5	16	15	Adj	Adjustable	±1%	92% @ 12V _{IN} , 3.3V _{OUT}		QFN7×8-52	4.5
NEW SY21715AJM	4.5	16	15	Adj	Adjustable	±1%	92% @ 12V _{IN} , 3.3V _{OUT}		MQFN5×5-32	2.85

Non-isolated Module

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	V _{FB} Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20608QNC	0.85	5.5	0.5	2	Adjustable	±1.5%	90% @ 3.3V _{IN} , 5V _{OUT}	Boost	QFN3×3-10	1.1
SY20631QNC	0.85	5.5	1	2	Adjustable	±1.5%	90% @ 3.3V _{IN} , 5V _{OUT}	Boost	QFN3×3-10	2.1
SY26901ACM	2.97	3.63	1.5	1	3.3	±1.5%	83% @ 3.3V _{IN} , 3.3V _{OUT}	Buck/Boost	MQFN2×3-13	1.2

Isolated Module

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	V _{FB} Accuracy	Efficiency @ full load	Features	Package	Height (Max)(mm)
SY20694WNQ	4.5	14	0.2	1.6	5	-	65% @ 5V _{IN} , 5V _{OUT}	3kV DC Hinpot	QFN4×5.5-14	4.55

Based on patent 3D package technology and advanced single-die solution, Silergy provides higher power density and larger capacity, reducing size, total cost and layout complexity.

Silergy power module have been widely used in 5G, communication, server, industry, robot and other fields.



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Battery Management

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY20717FAC	Single-Cell High Efficiency Switching Charger	SO8	4~16	1.2	0.8	Single Cell	4.1V	Adaptive Input Current Limit
SY20717BFAC	Single-Cell High Efficiency Switching Charger	SO8	4~16	1.5	0.8	Single Cell	4.2V	Adaptive Input Current Limit
SY20716D1PPC	Single-Cell with USB-OTG	CSP1.93x2.05-20	4~6	1.25/1.55	3	Single Cell	3.5~4.44V	Compliance with USB and USB OTG
SY20752AQIC	Single-cell Charger Step Down Reg.	QFN4x4-16	4~23	2	0.8	Single Cell	4.2V, 4.35V	Power Path Management and Adaptive Input Current Limit
SY20752CDCC	Single-cell Charger Step Down Reg.	DFN3x3-12	4~23	2	0.8	Single Cell	4.2V, 4.35V	Power Path Management and Adaptive Input Current Limit
SY20752BFCC	Single-cell Charger Step Down Reg.	SO8E	4~23	2	0.8	Single Cell	4.2V, 4.35V	Adaptive Input Current Limit
SY20752B1FCC	Single-cell Charger Step Down Reg.	SO8E	4~23	2	0.8	Single Cell	4.1V, 4.4V	Adaptive Input Current Limit
SY20718EQDC	Single-cell Battery Power Bank Charger	QFN3x3-16	4.7~5.5	2	0.5	Single Cell	4.25V, 4.4V	Prog. Current Limit, 2.5A Boost
SY20718CQDC	Single-Cell Bi-directional Power Bank	QFN3x3-16	4.5~5.35	2.5	0.5	Single Cell	4.2V, 4.35V	Prog. Current Limit, 2.5A Boost
SY20718GQDC	Single-cell Battery Power Bank Charger	QFN3x3-16	4.5~5.35	2.5	0.5	Single Cell	4.2V, 4.35V	Prog. Current Limit, 4.75V Boost
SY20719QCC	Single Cell NVDC Switching Charger	QFN4x4-24	3.9~6	2.5	1.5	Single Cell	3.5~4.4V	I ² C Control, USB OTG, Power Path Management
SY20741QDC	Multi-cell Charger Step Down Reg.	QFN3x3-16	4~14	2.5	0.5	1-2 Cells	4.2V, 4.35V	Adaptive input current limit, Blocking FET integrated
SY20741BQDC	Multi-cell Charger Step Down Reg.	QFN3x3-16	4~14	2.5	0.5	1-2 Cells	4.1V, 4.25V	Adaptive input current limit, Blocking FET integrated
SY20741CQDC	Multi-Cell Li-Ion Battery Charger	QFN3x3-16	4~13	2.5	0.5	1-2 Cells	4.1V, 4.2V	Adaptive Input Power Limit, Blocking FET integrated
SY20751TYC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-26	4.5~5.7	3	0.35	Single Cell	4.2V/4.35V/4.4V	dual output data port, adjustable battery level indication
SY20751BTYC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-26	4.5~5.7	3	0.35	Single Cell	4.2V, 4.35V, 4.4V	dual output data port, adjustable battery level indication, 5% low power alarm
SY20743QCC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, step 32mV	NVDC power path management, OTG
SY20743BQCC	Single Cell Li-Ion DC/DC Switching Charger	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
SY20743CQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, step 32mV	NVDC power path management, OTG, Default Input OVP 14V
SY20774BQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~14	5	1.5	Single Cell	3.84~4.608V, step 32mV	NVDC power path management, OTG, BC1.2 compliance, Default HVTYP=12V

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY20774DQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~14	5	1.5	Single Cell	3.84~4.608V, step 32mV	NVDC power path management, OTG, BC1.2 compliance, Default HVTYPE=9V
SY20744VKS	Single Cell Li-Ion/ Li-polymer DC/DC Switching Charger	CSP 2.2 × 2.565 -30	3.8~14	2	1.5	Single Cell	4.0-4.5V, step 10mV	Extremley low Iq, NVDC power path management, OTG, dual-channel LDO
SY20764QDC	High Current Step-down Charger	QFN3x3-16	4~14	3.5	0.5	1-2 Cells	4.2V, 4.35V	Adaptive input current limit, Blocking FET integrated
SY20764BQDC	High Current Step-down Charger	QFN3x3-16	4~14	3.5	0.5	1-2 Cells	4.25V, 4.4V	Adaptive input current limit, Blocking FET integrated
SY20753QYC	Single-Cell Bi-directional Power Bank	QFN4x4-20	4~13.5	5	0.3, 0.5	Single Cell	4.1V,4.2V, 4.35V,4.4V	I ² C controlled, USB and Protocol IC Compliance, 20W Boost
SY20759QEQ	2 ports Single-Cell Bi-directional Power Bank	QFN5x5-32	4~13.5	8	0.26, 0.34, 0.42, 0.5	Single Cell	4.1V, 4.2V, 4.35V, 4.4V	Dual ports, Bi-direction for USB-C, I ² C, ADC, BC1.2, 28W Boost
NEW SY20798QEQ	22.5W PD3.0 3IN1 Single Cell Power Bank	QFN5x5-32	4.6~13	5	Programmable	Single Cell	4.2V, 4.35V	USB Type-C DRP support, PD3.0, QC3.0/SCP compliance, Battery Fuel Gauge Indicator, 22.5W output power
SY20757VCC	3IN1 Single-Cell Bi-directional Power Bank	QFN5x5-34	4.6~13.2	5	Programmable	Single Cell	4.2V, 4.35V, 4.4V	QC3.0,AFC/FCP compliance, Battery Fuel Gauge Indicator
SY20754QCC	Single-Cell Bi-directional Power Bank	QFN4x4-24	4~13.5	5	0.5	Single Cell	4.1V,4.2V, 4.35V,4.4V	I ² C controlled, USB Compliance, 5V/3A&12V/1.2A Boost
SY20745RBC	Multi-cell Battery Charger Controller Supporting Boost Mode	QFN3.5x3.5-20	4.5~25	8.128	Programmable (0.615,0.75 and 0.885)	1-4 Cells	Programmable (1.024V~4.8V)	SMBUS Controls
SY20763QDC	3-cell Synchronous Boost Li-Ion Battery Charger	QFN3x3-16	3.6~12.8	1	0.5	3 Cells	4.2V, 4.35V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY20761QDC	2-cell Synchronous Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	1.2	1	2 Cells	4.1V, 4.2V, 4.35V, 4.4V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY20762NQDC	Two-Cell Boost Li-Ion Battery Charger With System Power Path Management	QFN3x3-16	3.6~5.5	1.5	1	2 Cells	8.4V	System Power Path Management; External Separated Control for Boost and BATFET
SY20762EQDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.2V, 4.35V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY20762E1QDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.25V, 4.4V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY20762FQDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3~5.5	2	1	2 Cells	4.2V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY20765QDC	2-cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~ 5.5	2	1	2 Cells	4.2V, 4.35V	Prog. Charge Current&Timer, Cell Balance Control

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY20761BQDC	2-cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.1V,4.2V,4.25V,4.35V	Prog. Charge Current&Timer, Adaptive Input Current Limit
SY20778QYC	Synchronous Boost converter with QC3.0	QFN4x4-20	2.7~4.5	/	0.3, 0.5	Single Cell	/	QC3.0 Compliance
SY20783QIC	2-4 cells Li-Ion synchronous Buck charger	QFN3x3-18	4~28	2	0.5	2-4 Cells	4.1V,4.2V,4.35V	Prog. Input Current Limit, Thermal Regulation, NTC JEITA Compliance
SY20776QFQ	Multi-cell Buck-Boost Battery Charger	QFN4x4-32	3.5~ 25	8.128	0.8, 1.2	1-4 Cells	1.024V - 19.2V	Prog. CV, CC, VSYSMIN, VDPM, IDPM, OTGCV, OTGCC by I ² C, Power/Current Monitor, PROCHOT, PTM, VAP
SY20779QFQ	Multi-cell Buck-Boost Battery Charger	QFN4x4-32	3.5~ 25	8.128	0.8, 1.2	1-4 Cells	1.024V – 19.2V	Prog. CV, CC, VSYSMIN, VDPM, IDPM, OTGCV, OTGCC by SMBus, Power/Current Monitor, PROCHOT, PTM, VAP
NEW SY20794VWS	USB Type-C Port PD Controller	CSP1.29×1.25-9	3~5.5	/	/	/	/	Support TCPC, Support DFP/UFP/DRP, Support VCONN, Support PD3.0,Support VBUS Detect

Fast Charge

Part Number	Function	Package	ADC	V _{IN} (V)	Typical Output Current(A)	F _{SW} (kHz)	MOSFET Peak Current(A)	Support Protocol	Protection
SY24510UIC	High Efficiency Single Phase 2:1 Switched Capacitor Converter	CSP2.57x3.71-34	NO	4.5~20	2	125~1000	14.5	No	OCP, OTP, OVP
SY20797CVLS	8A dual phase switched capacitor battery charger with ADC	CSP3.03x3.34-56	Yes	3.5~12	8	250~1000	16	No	OCP, OVP, OTP, UCP, VDR

BMS

Part Number	Description	Package	V _{IN} (V)	Series Cells	Protection Mode
NEW SY20789QEQ	3 to 6 Series Cell Battery Monitor, Balance, Protection for Li-ion and Phosphate Application	QFN5×5-32	30	3-6 Cells	OCD、SCD、OV、UV

Wireless Charger

Part Number	Function	Package	TX/RX	Wireless Power Standard	Input Voltage Range (V)	Output Voltage Range (V)	Output Power Max (W)
NE6053	Wireless Power Receiver	QFN5x5x0.8-32	RX	WPC 1.2.4		5	5
NE6101	Wireless Power Receiver	CSP3.85x4.05x0.6-90	RX	WPC 1.2.4		5/9	10
SY65153	Wireless Power Receiver For Cellphone	CSP2.64x3.94x0.6-52	RX	WPC 1.2.4		5/9/12	15
SY65153A	Wireless Power Receiver For TWS/Wearable	CSP2.64x3.94x0.6-52	RX	WPC 1.2.4		5/9/12	15
NE8051	Wireless Power Transmitter	QFN5x5x0.8-40	TX	WPC 1.2.4	5		5
NE8101	Wireless Power Transmitter	QFN5x5x0.8-40	TX	WPC 1.2.4	5/9		10
SY66151	Wireless Power Transmitter	QFN5x5x0.8-40	TX	WPC 1.2.4	12~19		15
SY6507TCC	Half-Bridge Wireless Power Transfer	QFN2x3-12	TX	WPC	4~22		5

Gauge IC

Part Number	Functions	Cell Chemistry	Package	Series Cells	Communication Interface	Operating Temperature Range (°C)	Special Functions
SY24561DFC	Cost-save Single Cell Li+ Battery Gauge IC	li-ion	DFN2×2-8	Single Cell	I ² C	-20 to 60	Eliminate Current Sense Resistor

Silergy battery management solutions make it easier for you to design more efficient, longer lasting, and more reliable battery applications. Silergy battery management portfolio includes chargers, monitors and protection ICs, wireless charging, gauge ICs that can be used in industrial, automotive and personal electronics applications.



PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY8631BQCC	2.5	5.5	5	QFN4x4-24	Portable Media Players	2 Chs synchronous buck and 3ch LDO, one RESET output and forced PWM mode selection
NEW						
SY21525AVCS	2.5	5.5	1	WLCSP 2.66x3.89-54	Smart Phones, Tablets	4 integrated power stages and each phase has the capability to deliver up to 5A totally 20A continuous output current.
SY8970UBC	2.6	5.5	1 Ch LSW+1 Ch LDO + 3 Chs Buck	Fan-out CSP3.2x4.2-48	SSD Power System, Microcontrollers	3.4MHz I2C; Auto PFM/FCCM control; Dedicate Sleep Control; Power Good indicator; Protection: OVP/OCP/SCP/OTP.
NEW						
SY21523GPZS	2.6	5.5	5 Chs Buck+2 Chs LDO	CSP3.23x3.23-52	SSD	5 Chs Buck(2Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY21523CPZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23x3.23-52	SSD	5 Chs Buck(2Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control
SY21523EPZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23x3.23-52	SSD	5 Chs Buck(2Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control
SY21523PZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23x3.23-52	SSD	5 Chs Buck(2Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY21523FPZS	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23x3.23-52	SSD	5 Chs Buck(2Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY21572PZS	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.2x3.2-52	SSD	3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control

HV PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY21542QVC	2.7	16	1	QFN3x4-19	SSD	Input-side current limit switch Bi-directional DC-DC Regulator with disconnect switch: Boost Charging Mode and Buck Discharging Mode
SY21564RGC	2.6	16	1	QFN4x4-25	SSD	Input-side reverse blocking switch Bi-directional DC/DC regulator, I2C interface
SY21565TTC	4.5	28	2	QFN3x3-19	Notebook/Monitor/Desktop	Wide input voltage range, high efficiency PMIC for USB power delivery applications. The device integrates a 5A buck regulator, an external PMOS driver and an external NMOS driver to realize power path control
SY21565DTTQ	4.5	28	2	QFN3x3-19	Notebook/Monitor/Desktop	Wide input voltage range, high efficiency PMIC for USB power delivery applications. The device integrates a 5A buck regulator, an external PMOS driver and an external NMOS driver to realize power path control
SY8688DPUC	2.6	28	3	CSP3.33x3.5 3-36	Mobile/POS	High Integration Power Management Unit with Single-cell Switching Charger, I2C Interface, OTG Operation Power Path Management, and 2-Channel Flash LED Driver for Smart Phone

HV PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY72001RGQ	2.6	16	1	QFN4x4-25	SSD	Input-side reverse blocking switch Bi-directional DC/DC regulator, I2C interface

Panel PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY7510TQC	VGH:5V VGL:-18V	VGH:40V VGL:0V	14	QFN4x5-28	TV LCD Panel	14-Channel level shifter
SY7511QFC	VGH=17V VGL=-18V	VGH=42V VGL=-3V	10	QFN4x4-32	TFT LCD Panel/MNT Panel	6 channel+4channel Level shifter
NEW SY7512QAC	VGH=16V VGL=-20V	VGH=40V VGL=-3V	10	QFN4x4-28	TFT LCD Panel	6 channel level shifter with gate shaping function and 4 channel level shifter without gate shaping function
SY7540RPC	AVDD:11V	AVDD:20V DVDD:4V	8	QFN5x5-40	OLED TV Panel	8-channel gamma solution for OLED display
SY7565QCC	8.6	15.9	3	QFN4x4-24	TV LCD Panel	a synchronous Boost regulator and 2 channel high speed operation amplifies for TV LCD panel
NEW SY7561UYC	2.5	4.8	3	CSP2.4x2.4-36	Smart Phone OLED panel	a synchronous boost regulator for ELVDD, a dual-phase buck-boost regulator for ELVSS, and a synchronous boost regulator for AVDD.
NEW SY7566VFC	2.6	6	5	QFN3x3-22	NB TFT LCD Panel	an AVDD synchronous boost converter for source driver, a VGH asynchronous boost converter for gate driver, a VGL negative charge pump for gate driver, two high performance OPAMPs for HAVDD and VCOM rails, and a voltage detector RESET.
SY7570RMC	3.5	6	6	QFN6x6-48	TFT LCD Panel MNT Panel	AVDD Boost converter, VGH boost converter, VOFF2 & VSS negative charge pumps, two buck converters, one operational amplifier, 4ch gamma outputs, 4ch outputs level shifter.
SY7571RKC	8	18	22	QFN6x6-52	FHD TV LCD Panel	a synchronous Buck regulators, an AVDD Boost regulator, an HAVDD OPAMP, a positive and a negative charge pump controller for VGH and VGL, a gate pulse modulator VGHM, 14 channel gamma and 2 channel VCOM OPAMP
SY7573QJC	8	18	5	QFN7x7-48	TV LCD Panel	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, GPM, DVDD, Gamma reference LDO
SY7578TOQ	9.5	14.7	14	QFN8x8-72	TV LCD Panel	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, Gamma reference LDO
SY7627RMC	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL0V	19	QFN6x6-48	TV LCD Panel	19-Channel level shifter

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY7627ARMC	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL0V	19	QFN6×6-48	TV LCD Panel	19-Channel level shifter
SY7627DRMQ	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL+0.3V	19	QFN6×6-48	TV LCD Panel	19-Channel level shifter
SY21563CQCC	2.3	5.5	3	QFN4×4-24	Monitor/NB LCD Panel Power	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, GPM
SY7634RPC	9.5	14	7	QFN5×5-40	UD TV LCD Panel	2 channel Buck regulators , an AVDD Boost regulator , a VGH Boost or charge pump controller, a VGL Buck-Boost or charge pump controller, and an OPAMP with temperature compensation
SY21536ARMC	2.9	5.5	4	QFN6×6-48	E-Book/E- Writer/E-ink EPD	+/-15V LDOs for EPD source driver, adjustable pos. & neg. charge pumps for EPD gate driver, a VCOM OPAMP, temperature measurement function
SY7686DCC	2.5	5.5	2	DFN3×3-12	PAD panels/Active Matrix OLED	a synchronous boost regulator and a synchronous Buck-boost regulator
SY7687QEC	AVDD:6.5V DVDD:2.5V	AVDD:18V DVDD:3.6V	15	QFN5×5-32	TFT-LCD TVs/Monitors/PC	14 channel voltage references for gamma correction and one voltage reference for VCOM in TFT LCD panels
SY7696BQEC	2.9	5.5	5	QFN5×5-32	Electronic Paper Display	a single-chip power management IC designed for electronic paper display
SY71500QFQ	2.6	3.6	13	QFN4×4-32	TV LCD Panel	13 channel level shifters
SY71600RPC	AVDD:11V	AVDD:20V DVDD:3.3V	8	QFN5×5-40	OLED TV Panel	8-channel gamma solution for OLED display
SY71100TOQ	9.5	14.7	36	QFN8×8-72	UD TV LCD Panel	4ch Buck regulator, an AVDD Boost regulator, a VGH positive charge pump, a VGL negative charge pump, 3 channel operation amplifier, 14 channel gamma reference and 12 channel level shifters



AC/DC

Part number	App.Type	LED Channels	Input Voltage	LED Voltage	LED Current	Control Method	Switching Frequency	Package	Int.MOS
SY22109DEC	Phone Backlight	1	3 to 5.5V	<38V	<300mA	Boost	1MHz	DFN2x2-6	40V/1A
SY22103AADC/SY22103ADBC	Handheld devices Backlight	1	2.8 to 40V	<40V	<300mA	Boost	1MHz	TSOT23-6 /DFN3x3-10	40V/2A
SY22104DBC	Handheld devices Backlight	1	2.8 to 30V	<30V	<300mA	Boost	1MHz	DFN3x3-10	30V/4A
SY22102ABC/SY22102ADC/SY22102AABC	Handheld devices Backlight	1	2.8 to 30V	<30V	<300mA	Boost	1MHz	TSOT23-6 /SOT23-6	30V/2A
SY22121POC	Phone/PAD Backlight	2	2.7 to 28V	<40V	<30mA	Boost+LDO	1MHz	CSP 1.31x1.31-9	40V/1A
SY22141QDC	Notebook Backlight	4	2.8-24V _{DC}	<35V	<40mA	Boost+LDO	300kHz to 2MHz	QFN3x3-16	36V/2A
SY22161QDC	Notebook Backlight	6	4.5-24V _{DC}	<40V	<30mA	Boost+LDO	1MHz	QFN3x3-16	40V/2A 40V/30mA
SY22186RAC	Notebook Backlight	6	2.8-28V _{DC}	<38V	<50mA	Boost+LDO	500kHz to 1.2MHz	QFN3x3-20	40V/2.6A 40V/50mA
SY22164DOC	Monitor Backlight	4	4.5-28V _{DC}	<65V	<180mA	Boost+LDO	200kHz-900kHz	DFN5x5-16	70V/3A
SY22106FHC	TV Power Backlight	1	8-16V _{DC}	<90V	<1A	OP+LED Driver	NA	SSOP10	NA
NEW SY22142BABC	TV Power Backlight	1	9-28vdc	<200V	<1.5A	Boost	120KHz	SOT23-6	NA
SY22189BFEC	TV Power Backlight	1	8-16V _{DC}	<90V	<1A	Boost LED Driver+ Buck CV+OP	500kHz	SOP16E	18V/3A
SY22162RJC	TV Local Dimming Backlight	16	8-16V _{DC}	<90V	<1A	LDO	NA	QFN8x8-64	NA

LED Lighting(AC-DC)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY22697NFAC	AC Buck non-dim	>0.5	Self-Bias, QR, Buck,4 Drain, accurate OVP Int. MOS 500V/5.5Ω	230V _{AC}	<30W	<200mA	SO8
SY22717NFAC	AC Buck non-dim	>0.5	Self-Bias, QR, Buck, 4 Drain, accurate OVP Int. MOS 500V/4Ω	230V _{AC}	<30W	<300mA	SO8
SY22718NAGC	AC Buck non-dim	>0.5	Self-Bias, QR, Buck,4 Drain,accurate OVP Int. MOS 500V/7.3Ω	230V _{AC}	<24W	<200mA	DIP8
SY22686BAAC	AC Flyback non-dim	>0.5	Self-Bias, QR, Buck-Boost/Flyback, compact package, no aux winding, Int. MOS 600V/16Ω	120/230V _{AC}	<5.5W	NA	SOT23-5
SY22687FAC	AC Flyback non-dim	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Int. MOS 600V/16Ω	120/230V _{AC}	<8.5W	NA	SO8
SY22688FAC	AC Flyback non-dim	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Int. MOS 600V/11.5Ω	120/230V _{AC}	<9.5W	NA	SO8
SY22777AAC	AC Buck non-dim	>0.9	QR, Buck, no aux winding, Int. MOS 600V/15Ω	230V _{AC}	<8W	<100mA	SOT23-5
SY22715FAC	AC Buck non-dim	>0.9	QR,Buck,4 Drain,no aux winding, Int. MOS 600V/2Ω	230V _{AC}	<20W	<300mA	SO8
SY22714ZFAC	AC Buck non-dim	>0.9	QR, Buck, accurate OVP, Int. MOS 500V/2.9Ω	120/230V _{AC}	<24W	<400mA	SO8
SY22723ZFAC	AC Buck non-dim	>0.9	QR, Buck, accurate OVP, Int. MOS 600V/6.5Ω	120/230V _{AC}	<16W	<240mA	SO8
SY22724ZFAC	AC Buck non-dim	>0.9	QR, Buck, accurate OVP, Int. MOS 600V/4.3Ω	120/230V _{AC}	<20W	<320mA	SO8
SY22726N1FAC	AC Buck non-dim	>0.9	QR, Buck, accurate OVP, Int. MOS 600V/2.2Ω	120/230V _{AC}	<30W	<500mA	SO8
SY22778YAGC	AC Buck non-dim	>0.9	QR, Buck, accurate OVP, Int. MOS 600V/2.2Ω	120/230V _{AC}	<35W	<500mA	DIP8
SY22774FAC	AC Flyback non-dim	>0.9	Self-Bias, QR, Buck, 4-Drain SO8, Int. comp. accurate OVP,650V/10Ω	230V _{AC}	<10W	NA	SO8
SY22775FAC	AC Flyback non-dim	>0.9	Self-Bias, QR, Buck, 4-Drain SO8, Int. comp. accurate OVP, 650V/4.4Ω	230V _{AC}	<20W	NA	SO8
SY22776YFAC	AC Flyback non-dim	>0.9	PSR, QR, Buck-Boost/Flyback CC, Int. MOS 700V/2.9Ω	120/230V _{AC}	<22W		SO8
SY22678ABC	AC Buck non-dim	>0.9	PSR, QR, CC, Buck controller	120/230V _{AC}	<100W	NA	SOT23-6
SY22679BABC	AC Flyback non-dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller	120/230V _{AC}	<100W	NA	SOT23-6
SY22674BFAC	AC Flyback non-dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller	120/230V _{AC}	<80W		SO8
SY22601BFAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	<250mA	SO8
SY22602FAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	250~600mA	SO8
SY22603AJAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	0,25~1.2A	TO252-3

LED Lighting(AC-DC)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY22604KAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	0.5~1.5A	TO220-3
SY28611FAC	Dim-Interface	NA	3-in-1 Dimming Interface	NA	NA	NA	SO8
SY28611SFAC	Dim-Interface	NA	3-in-1 Dimming Interface	NA	NA	NA	SO8
SY28612FKC	Dim Ripple-Remover	NA	3 in 1 Dimming Interface with current filter	NA	NA	NA	SO14
SY22471UAAC	PFC_Boost_CV	>0.9	QR, CV, Boost, Int. MOS 520V/9Ω single winding	230V _{AC}	<25W		SOT23-5
SY22743UFAC	PFC_Boost_CV	>0.9	QR, CV, Boost, Int. MOS 500V/4.9Ω single winding	230V _{AC}	<50W		SO8
SY22744UFAV	PFC_Boost_CV	>0.9	QR, CV, Boost, Int. MOS 500V/3.5Ω single winding	230V _{AC}	<60W		SO8
SY22747AGC	AC Flyback Non-Dim	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Int. MOS 650V/2.8Ω	400V _{DC}	<50W	NA	DIP8
SY22747CAGC	AC Flyback Non-Dim	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Jitter, Int. MOS 650V/2.8Ω	400V _{DC}	<50W	NA	DIP8
SY22824ABC	PFC_Boost_CV	>0.9	QR, CV, Boost,Frequency reduce @ light load	120/230V _{AC}	<300W		SOT23-6
SY22824BABC	PFC_Boost_CV	>0.9	QR, CV, Boost,Burst @light load	120/230V _{AC}	<300W		SOT23-6
SY22650BFAC	PFC_Flyback_CV	>0.9	PSR, QR, CV, Controller	120/230V _{AC}	<80W		SO8
NEW SY22650SFAP	PFC_Flyback_CC_CV	>0.9	SSR, QR, CC, CV, Controller	120/230V _{AC}	<80W		SO8
SY22655ABC	PFC_Flyback_CV	>0.9	PSR, QR, CV, Controller	120/230V _{AC}	<60W		SOT23-6
SY22654FAC	PFC_Buck_CV	>0.9	PSR, QR, Buck CV, Int. MOS 500V/4.5Ω	120/230V _{AC}	<10W	<250mA	SO8
SY22486FAC	PFC_Buck_CV	>0.9	PSR, QR, Buck CV, Int. MOS 600V/2.2Ω	120/230V _{AC}	<16W	<400mA	SO8
SY22651FAC	AC Buck PWM Dim	>0.9	PFC, CC, Buck controller, PWM/Analog dim	120/230V _{AC}	<80W		SO8
SY22656FAC	AC Buck PWM Dim	>0.9	PFC, CC, Buck controller, PWM/Analog dim, Int. MOS 600V/6Ω	120/230V _{AC}	<12W	<300mA	SO8
SY22651ZFAC	DC Buck PWM Dim	>0.5	CC, Buck controller, PWM/Analog dim	40~400V _{DC}	<80W		SO8
SY22652AFAC	AC Flyback PWM Dim	>0.9	PFC,CC, Flyback controller, PWM/Analog dim	120/230V _{AC}	<80W		SO8
SY22645FAC	AC Flyback PWM Dim	>0.9	PFC,CC, Flyback controller, Triac and 0-10V dim	120/227Vac	<80W		SO8
SY22661FAC	AC Flyback PWM Dim	>0.9	PFC,CC, Flyback controller, 0-10V dim	120/227Vac	<80W		SO8
SY22652NFAC	AC Flyback PWM Dim	>0.9	PFC, CC, Flyback controller, PWM/Analog dim	120/230V _{AC}	<80W		SO8
SY22652ZFAC	DC Flyback PWM Dim	>0.5	CC, Flyback controller, PWM/Analog dim	400V _{DC}	<150W		SO8
SY22658FAC	AC Flyback, Resistance Dimming	>0.9	PFC, CC, Flyback controller, Multistage dim	120/230V _{AC}	<80W		SO8
SY22653FHC	AC Flyback 2-ch Dim	>0.9	PFC, CC, Flyback controller, Color Mixing and Dimming	120/230V _{AC}	<15W	<300mA	SSOP10

LED Lighting(AC-DC)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY22657FAC	AC Buck-Boost PWM Dim	>0.9	PFC, CC, Flyback, PWM Dimming, Int. MOS 600V/3.8Ω	120/230V _{AC}	<12W	<300mA	SO8
SY22659FHC	AC Flyback 2-ch Dim	>0.9	PFC, CC, Flyback controller, Color Mixing and Dimming, Int. MOS 600V/3.8Ω	120/230V _{AC}	<12W	<300mA	SSOP10
SY22665AAC	AC Buck Triac Dim	>0.9	QR, CC, Buck, Triac Dimming, Low BOM cost, Int. MOS 350V/4.5Ω	120V _{AC}	<10W	<320mA	SOT23-5
SY22669FAC	AC Buck Triac Dim	>0.9	QR, CC, Buck, Triac Dimming, Low BOM cost, 4 Drain, Int. MOS 350V/2.5Ω	120V _{AC}	<18W	<320mA	SO8
SY22664FAC	AC Flyback Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller, Triac Dimming, single winding	120/230V _{AC}	<40W	NA	SO8
SY22630AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/3Ω, Triac Dimming, single winding	120V _{AC}	<12W	<200mA	SO8
SY22631AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<15W	<200mA	SO8
SY22731AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/1.5Ω, Triac Dimming, single winding	120V _{AC}	<16W	<200mA	SO8
SY22633FAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 600V/7Ω, Triac Dimming, single winding	230V _{AC}	<12W	<200mA	SO8
SY22634AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 600V/5Ω, Triac Dimming, single winding	230V _{AC}	<15W	<200mA	SO8
SY22636FAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 700V/6Ω, Triac Dimming, single winding	230V _{AC}	<15W	<200mA	SO8
SY22668AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/4Ω, Triac Dimming, single winding	120V _{AC}	<10W	<160mA	SO8
SY22753AFAC	AC Buck-Boost Triac Dim	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<15W	<200mA	SO8
SY22781AAAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 350V/5Ω, Triac Dimming, single winding	120V _{AC}	<15W	<100mA	SOT23-5
SY22783AFAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<25W	<100mA	SO8
SY22783DFAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<25W	<100mA	SO8
SY22791AAAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 500V/8Ω, Triac Dimming, single winding	230V _{AC}	<15W	<100mA	SOT23-5
SY22793AFAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 500V/4.5Ω, Triac Dimming, single winding	230V _{AC}	<40W	<100mA	SO8
SY22793CFAC	AC Boost Triac Dim	>0.9	PSR, QR, CC, Boost, Int. MOS 500V/4.5Ω, Triac Dimming, single winding	230V _{AC}	<40W	<100mA	SO8
SY22795FAC	AC Linear Non-dim	>0.5	Linear, Int. MOS 500V/20Ω	120/230V _{AC}	<8W	<70mA	SO8
SY22699FAC	AC Linear Non-dim	>0.7	Linear, Int. MOS 500V/20Ω	120/230V _{AC}	<8W	<70mA	SO8
SY22698FCC	AC Linear Non-dim	>0.7	Linear, Int. MOS 500V/20Ω	120/230V _{AC}	<10W	<70mA	SO8E
SY22643NFCP	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB148°C	120V _{AC}	<12W	<70mA	SO8E
SY22643AFCP	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB110°C	120V _{AC}	<12W	<70mA	SO8E
SY22643BFCP	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB122°C	120V _{AC}	<12W	<70mA	SO8E

LED Lighting(AC-DC)

Part Number	App. Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY22643CFCP	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB128°C	120V _{AC}	<12W	<70mA	SO8E
SY22643PFCP	AC Linear Triac Dim	>0.9	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB148°C	120V _{AC}	<12W	<70mA	SO8E
SY22643QFCP	AC Linear Triac Dim	>0.9	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB122°C	120V _{AC}	<12W	<70mA	SO8E
SY22642A1FCC	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	<45mA	SO8E
SY22642B1FCC	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	<45mA	SO8E
SY22642C1FCC	AC Linear Triac Dim	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	5~12mA	SO8E
SY22639AFCC	AC Linear Triac Dim	>0.7	Analog Dimming with PWM signal ,Compatible with TRAIC dimmer, Int. MOS 500V	230V _{AC}	<10W	<40mA	SO8E
SY22644FCC	AC Linear PWM Dim		Linear PWM Dimming, Int. MOS 500V	120/230V _{AC}		<70mA	SO8E
SY22746AFAC	Charge pump LLC non-dim	>0.9	PSR, CC, ZVS, Charge Pump, LLC controller	230V _{AC}	<100W	NA	SO8
SY22748FAC	Charge pump LLC non-dim	>0.9	PSR, CC, ZVS, Charge Pump, LLC, 4 Drain, Low side, Int. MOS 500V/1.1Ω	230V _{AC}	<45W	NA	SO8
SY22749FAC	Charge pump LLC non-dim	>0.9	PSR, CC, ZVS, Charge Pump, LLC, 4 Drain, High side, ,Int. MOS 500V/1.1Ω	230V _{AC}	<45W	NA	SO8

LED Lighting(DC-DC)

Part Number	App.Type	Input Range(V)	Description	Max. LED Current	F(Hz)	Topology	Package
SY22648FCC	DCDC Buck	5V-80	Buck, Int. 80V/200mΩ MOS, Analog/PWM dimming	2000mA	500k	Buck	SO8E
SY22649FCC	DCDC Buck	5V-80	Buck, Int. 80V/200mΩ MOS, Analog/PWM dimming	1200mA	500k	Buck	SO8E
SY22646BFCC	DCDC Buck	12V-60	Buck, Int. 60V/660mΩ MOS, ON/OFF dimming	800mA	350k	Buck	SO8E
NEW SY22647AHHC	DCDC Buck	11V-55V	Buck Controller, RGBW 4 channel, PWM dimming	5A	Adjustable frequency	Buck	TSSOP24E
SY22173ABC	IR LED	2.8V-30	Buck, Int. 30V/200mΩ MOS,PWM dimming	1.0A	1M	Buck	SOT23-6
SY22173BABC	IR LED	2.8V-30	Buck, Int. 30V/200mΩ MOS,PWM dimming, Small dimming scale accuracy	1.0A	1M	Buck	SOT23-6
SY22175FCC	IR LED	2.8V-30	Buck, Int. 30V/100mΩ MOS,PWM dimming,	3.0A	1M	Buck	SO8E
SY22175BFCC	IR LED	2.8V-30	Buck. int.30V/100mΩ MOS,PWM dimming, Small dimming scale accuracy	3.0A	1M	Buck	SO8E
SY22151ABC	IR LED	2.8V-30	Buck. int.30V/100mΩ MOS, Analog dimming,	1.5A	1M	Buck	SOT23-6
SY22177ABC	IR LED	2.8V-25	Buck. Int. 25V/200mΩ MOS, Analog dimming,	0.8A	1M	Buck	SOT23-6
SY22728A1ADC	IR LED	4.0V-23	Sync Buck, Int. 23V/125mΩ&23V/75mΩ MOS,PWM dimming, Small dimming scale accuracy	2.0A	1M	Buck	TSOT23-6
SY22728B1ADC	IR LED	4.0V-23	SYN Buck, Int. 23V/125mΩ&23V/75mΩ MOS,PWM dimming, Small dimming scale accuracy	1.5A	1M	Buck	TSOT23-6
SY22728H1ADC	IR LED	4.0V-23	SYN Buck, Int. 23V/125mΩ&23V/75mΩ MOS, Analog dimming, Small dimming scale accuracy down to 1% dimming scale	1.5A	1M	Buck	TSOT23-6
SY22146AABC	IR LED	2.8V-30	Boost, Int.30V/220mΩ MOS,PWM dimming	2.0A	1M	Boost	SOT23-6
SY22101AADC	IR LED	2.7V-5.5	Boost, Int.40V/400mΩ MOS,PWM dimming, Small dimming scale accuracy	1.0A	1M	Boost	SOT23-6

LED Lighting(MR16)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY22605ABC	MR16 non-dim	>0.9	Boost, Int.40V/220mΩ MOS	12V _{AC}	<5W	<300mA	SOT23-6
SY22606FCC	MR16 non-dim	>0.9	Boost, Int.40V/220mΩ MOS	12V _{AC}	<8W	>18Vout	SO8E
SY22608FPC	MR16 non-dim	>0.9	Boost, Int.40V/120mΩ MOS	12V _{AC}	<5W	>18Vout	CPC8
SY22627FCC	MR16 dimmable	>0.9	Boost+LDO, Int.40V/120mΩ MOS, Best compatibility	12V _{AC}	<8W	>18Vout	SO8E
SY22628FCC	MR16 dimmable		Boost, Int.60V/650mΩ MOS		<20W	>18Vout	SO8E
SY22629ABC	MR16 dimmable		Boost, Int.60V/650mΩ MOS		<15W	8~24Vout	SOT23-6

AC-DC CCCV Charger and Adapter (PSR Flyback Controller)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	No load loss
SY22817ABC	PSR Flyback Controller	SOT23-6	NO	<75W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
NEW SY22817AABC	PSR Flyback Controller	SOT23-6	NO	<75W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
SY23214AFAC	POE PSR Flyback controller	SO8	NO	<75W	AC LINE or POE	YES	NO	YES	YES	-	<30mW
SY23213FCP	POE PD Interface	SO8E	YES	<13W	POE	-	-	YES	NO	-	-
SY23215QYC	POE PD+PSR Flyback controller	QFN4x4-20	No	<25W	POE	YES	NO	YES	YES	-	-
SY23211AQEC	POE PD+PSR Flyback convertor	QFN5x5-32	YES	<12W	POE	YES	NO	YES	YES	-	-
SY23211ZQEC	POE PD+PSR Flyback convertor	QFN5x5-32	YES	<9.6W	POE	YES	NO	YES	YES	-	-
SY23212TQQ	POE PD+PSR Flyback convertor	QFN4x5-28	YES	<12W	POE	YES	NO	YES	YES	-	-

AC-DC CCCV Charger and Adapter (SSR Flyback Controller)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	No load loss
SY22813CABC	SSR Flyback Controller	SOT23-6	NO	<100W	AC LINE	YES	YES	YES	YES	Level 6	<75mW

AC-DC CCCV Charger and Adapter (PSR Flyback Converter 600V~700V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	No load loss
SY23403Z1FAC	PSR Flyback	SO8	620V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23405ZFAC	PSR Flyback	SO8	620V	14W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23406ZFAC	PSR Flyback	SO8	620V	18W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23413MFAP	PSR Flyback	SO8	650V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23413ZFAC	PSR Flyback	SO8	650V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23413YFAC	PSR Flyback	SO8	650V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23413VFAP	PSR Flyback	SO8	650V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23416VFAC	PSR Flyback	SO8	650V	18W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
SY23416YFAC	PSR Flyback	SO8	650V	18W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
NEW SY23418VFAC	PSR Flyback	SO8	650V	24W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
SY23404FAC	PSR Flyback	SO8	700V	12W	AC LINE	YES	NO	YES	YES	Level 6	<30mW
SY23407FQC	PSR Flyback	SO7	700V	12W	AC LINE	YES	NO	YES	YES	Level 6	<20mW

AC-DC CCCV Charger and Adapter (SSR Flyback Converter 600V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	V _{IN} Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	No load loss
SY22861CFAC	SSR Flyback	SO8	600V	18W	AC LINE	YES	YES	YES	YES	Level 6	<75mW
SY22862CFAC	SSR Flyback	SO8	600V	12W	AC LINE	YES	YES	YES	YES	Level 6	<75mW
SY22863FAC	SSR Flyback	SO8	700V	12W	AC LINE	YES	YES	YES	YES	Level 6	<75mW

AC-DC CCCV Charger and Adapter (PSR Flyback Converter 150V/200V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	V _{IN} Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Soft Start	No load loss
SY22852FAC	PSR Flyback	SO8	200V	8W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW
SY22851FAC	PSR Flyback	SO8	200V	12W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW
SY22854FAC	PSR Flyback	SO8	200V	8W	36-72VDC or POE	YES	NO	YES	YES	YES	<75mW
SY22857FAC	PSR Flyback	SO8	200V	12W	36-72VDC or POE	YES	NO	YES	YES	YES	<75mW
SY22856AFAC	PSR Flyback	SO8	200V	12W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW

AC-DC CCCV Charger and Adapter (Buck Converter 350V~700V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	V _{IN} Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	No load loss
SY22841AAC	Buck Converter	SOT23-5	500V	2.4W	AC LINE	NO	NO	YES	YES	Level 5	AC/DC power supply
SY22842FAC	Buck Converter	SO8	500V	3W	AC LINE	NO	NO	YES	YES	Level 5	AC/DC power supply
SY22843FAC	Buck Converter	SO8	500V	4.2W	AC LINE	NO	NO	YES	YES	Level 5	<150mW
SY22844AAC	Buck Converter	SOT23-5	350V	3.6W	AC LINE	NO	NO	YES	YES	Level 5	<100mW
SY22846FAC	Buck Converter	SO8	700V	3W	AC LINE	NO	NO	YES	YES	Level 5	<150mW
SY22845FAC	Buck Converter	SO8	700V	4.2W	AC LINE	NO	NO	YES	YES	Level 5	<150mW
SY22848AGC	Buck Converter	DIP8	650V	5.4W	AC LINE	NO	NO	NO	YES	Level 5	<50mW
SY22848BAGC	Buck Converter	DIP8	650V	4.3W	AC LINE	NO	NO	NO	YES	Level 5	<50mW

AC-DC CCCV Charger and Adapter (PSR Flyback Converter 900V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
SY23433FHC	PSR Flyback	SSOP10	900V	7W	AC LINE	YES	NO	YES	YES	Level 6	<75mW
SY23433BFHC	PSR Flyback	SSOP10	900V	7W	AC LINE	YES	NO	YES	YES	Level 6	<75mW

AC-DC CCCV Charger and Adapter (QC2.0/3.0 Controller)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
SY22872CAC	QC2.0 Controller	MSOP8	No	24W	AC LINE	YES	YES	YES	Level 6	AC/DC power supply

AC-DC CCCV Charger and Adapter (SR Controller)

Part Number	Function	Package	Integrated FETs	Max Vds	Max Power	VOUT Range	Current Mode	Application Mode	OTP Protection	Comment
SY23422ABC	SR Controller	SOT23-6	No	60V	60W	5~15V	DCM,CRM	PSR,SSR	YES	No Awaken Function
SY23422AABC	SR Controller	SOT23-6	No	60V	60W	5~15V	DCM,CRM	PSR,SSR	YES	For PoE 48V input application No Awaken Function
NEW SY23425ABC	SR Controller	SOT23-6	No	200V	/	3.3~21V	DCM,CCM	PSR,SSR	YES	
NEW SY23432DGD	SR Controller	DFN2*3-8	No	130V	/	3.3~21V	DCM,CRM	PSR,SSR	YES	ZVS Flyback
SY23420FAC	SR Switcher	SO8	50V	50V	10.5W	5V	DCM,CRM	PSR,SSR	YES	
SY23426FAC	SR Switcher	SO8	60V	60V	12W	5V	DCM,CRM	PSR,SSR	YES	Awaken Function
SY23427AZC	SR Switcher	SOT335	60V	60V	10W	5V	DCM,CRM	PSR,SSR	YES	Awaken Function
SY23428FAC	SR Switcher	SO8	60V	60V	12W	5V	DCM,CRM	PSR,SSR	YES	
SY23429AZC	SR Switcher	SOT335	60V	60V	10W	5V	DCM,CRM	PSR,SSR	YES	
SY23451FAC	SR Switcher	SO8	60V	60V	15.5W	5V	DCM,CRM	PSR,SSR	YES	
SY23421FAP	SR Switcher	SO8	60V	60V	33W	5V~12V	CCM,DCM,CRM	SSR	YES	For PD charger

AC-DC CCCV Charger and Adapter (PSR Flyback Converter 900V BJT integrated)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
SY23401CFAC	PSR Flyback	SO8	980V	3.5W	AC LINE	YES	NO	YES	YES	Level 6	<75mW

AC-DC CCCV Charger and Adapter (PSR Flyback Converter 800V BJT integrated)

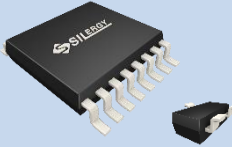
Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
SY23411WAZC	PSR Flyback	SOT335	800V	6W	AC LINE	YES	NO	YES	YES	Level 6	<50mW
SY23413WFAC	PSR Flyback	SO8	800V	12W	AC LINE	YES	NO	YES	YES	Level 6	<50mW

AC-DC CV Charger and Adapter (SSR Flyback Controller)

Part Number	Function	Package	VIN Range	Isolation	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
SY23510ABC	65kHz pseudo fixed frequency SSR Flyback controller	SOT23-6	9V~30V	Yes	Yes	Yes	Yes	Level 6	<75mW

AC-DC CV Charger and Adapter (SSR Flyback Converter 850V-1200V MOS Integrated)

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OC Protection	OVP Protection	Energy star	No load loss
NEW SY23565FIC	SSR Flyback	DIP7	1200V	12W	AC LINE	YES	YES	YES	YES	Level 6	<75mW



Advanced System Solutions

Motor Driver

Part Number	Recommended Operating Voltage		Drive Current Max (A)	MOSFET Ron HS+LS (mΩ)	Low power Sleep Mode	Package	Typical Applications
	Min (V)	Max (V)					
SY21602DFC	2.5	12	1.8	<450	√	DFN2x2-8	Cameras, DSLR Lenses, Consumer Products, Robotics, Toys
SY21605ABC	2.5	12	1.8	< 450		SOT23-6	Cameras, DSLR Lenses, Consumer Products, Robotics, Toys
SY21603HFC	2.5	12	1.5	<480	√	TSSOP-16E	POS Printers, Consumer Products, Robotics, Game Machines, Toys
SY21603QIC	2.5	12	1.5	<480	√	QFN4×4-16	POS Printers, Consumer Products, Robotics, Game Machines, Toys
SY21607BFCC	8	32	3.5	<420	√	SO8E	Consumer Products, Robotics, DC Brush Motor
SY21611FHC	2.5	16	0.8	<700	√	SSOP10	Refrigerators, Stepper Motors
SY21634FCC	5	32	3.6	<500	√	SO8E	Consumer Products, Robotics, DC Brush Motor
SY21604HHC	5	32	3	< 250	√	TSSOP24E	Appliance Fan, 3-phase BLDC Fan, HVAC

Analog Class-D Audio IC

Part Number	Features	Supply Voltage		Output Power	Package
		Min (V)	Max (V)		
SY24112QDC	Capacitor-less Headphone/Lineout Driver with LDO & Charge Pump	2.2	5.5	21mW(2x)	QFN3×3-16
SY24104QCC	Spread-Spectrum Modulation for low EMI, low I _{SD} , High PSRR, Filter-less supported	5.5	16	4W(2x) 3.25W(2x) 7W	QFN4×4-24
SY24104AQCC	Spread-Spectrum Modulation for low EMI, low I _{SD} , High PSRR, Filter-less supported	5.5	12	2x3.8W (2x) 4.7W (2x) 5.8W(2x)	QFN4×4-24
SY24105QEC	AM/FM Interference Avoidance, High Efficiency, Wide Supply Voltage, High PSRR, Low I _Q	6	26	30W(2x) 8W(2x) 6W	QFN5×5-32
SY24105BQEC	AM Interference Avoidance, High Efficiency, Wide Supply Voltage, mono Class-D audio power amplifier	5.6	26	60W	QFN5×5-32
SY24108QEC	AM/FM Interference Avoidance, High Efficiency, Wide Supply Voltage, High PSRR, Low I _Q	5.6	16	5.5W(2x) 6.8W(2x) 24W	QFN5×5-32

Part Number	Features	Supply Voltage		IO Voltage		Output Power	Package
		Min (V)	Max (V)	Min (V)	Max (V)		
SY24101AQEC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 10-segment equalizer and 4-segment super equalizer per channel	4.5	28	1.62	3.6	20W(2x)	QFN5×5-32
SY24145AQEC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 12-segment equalizer and 6-segment super equalizer per channel	4.5	28	1.8	3.3	20W(2x)	QFN5×5-32
SY24145BQHC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 12-segment equalizer and 6-segment super equalizer per channel	4.5	28	3	3.6	20W(2x)	QFN6×6-40
SY24106LQEC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 10-segment equalizer and 4-segment super equalizer per channel	4.5	16.5	3	3.6	15W(2x)	QFN5×5-32
SY24145SGAC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 12-segment equalizer and 4-segment super equalizer per channel	4.5	28	3	3.6	30W(2x)	TQFP7×7-48
SY24145SQHC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 12-segment equalizer and 4-segment super equalizer per channel	4.5	28	3	3.6	30W(2x)	QFN6×6-40
SY24146SGAC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 12-segment equalizer and 4-segment super equalizer per channel, integrated capless headphone amplifier	4.5	28	3	3.6	30W(2x)	TQFP7×7-48
		2.1	2.5			19mW(2x)	
SY24175DGAC	SDOUT pin for AEC, 3-band plus post band dynamic range control, 18-segment equalizer per channel	4.5	28	3	3.6	20W(2x)	TQFP7×7-48
SY24150GAF	SDOUT pin for AEC, 3-band plus post band dynamic range control, 18-segment equalizer per channel	4.5	28	3	3.6	20W(2x)	TQFP7×7-48
SY24120QHQ	SDOUT pin for AEC, 3-band plus post band dynamic range control, 18-segment equalizer per channel, 4 I ² C slave address	4.5	28	3	3.6	20W(2x)	QFN6×6-40

Analog Light Sensor

Part Number	Description	IR-Cut Epoxy	V _{CC}		I _{OUT} (μA) @EV=100lux, V _{CC} =3V	Package
			Min (V)	Max (V)		
SY22304AS22-J00	Ambient Light Sensor	/	2	12	11.7	SMD2015-2L
SY22304AS55-E00	Ambient Light Sensor	/	2	12	41	5φRadial-2L
SY22301-D21	Ambient Light Sensor	Y	2.5	5.5	47.9	3Φ Radial-2L

Digital Light Sensor

Part Number	Description	Bits	V _{CC}		Comm. Method	I _{DD} @ Power Down	I _{OUT} (μA) @EV=100lux, V _{CC} =3V	Finest Resolution	Gain & Tint Setting	Package
			Min(V)	Max(V)						
SY22306-S1	ALS with side-look package	12	2.3	3.6	I ² C	<1.0uA	110uA	0.029 lux/count	5 gain	SMD3013-4L side-look
SY22309AS22-J00	Ambient Light Sensor	16	2.6	3.6	I ² C	<1.0μA	90μA	0.0079 lux/count	/	SMD2015-8L
SY22319AS22-J00	Ambient Light Sensor	16	2.3	3.6	I ² C	<1.0μA	180μA	0.00005 lux/count	4 gain+4 integration time	SMD2015-8L
SY22319AS23-J00	Ambient Light Sensor	16	2.3	3.6	I ² C	<1.0μA	180μA	0.00005 lux/count	4 gain+4 integration time	SMD2024-6L
SY22312-H2	Light Sensor with Frequency Output	/	2.7	3.6	/	/	/	2.76 kHz/(uW/cm ²)	/	/
SY22316PS32-G00	PXS	16	2.8	3.6	I ² C	<2.0μA	/	/	/	SMD2515-6L

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT13L05AOC	USB2.0	2	Bi	5	3.5	2	24	SOT-23
SYT01S05DWC	USB3.0/HDMI1.4	1	Bi	5	0.35	2	30	DFN1.0×0.6-2
SYT03U05SMC	USB2.0	2	Uni	5	0.7	2	25	DFN1.0×0.6-2
SYT06A03DVC	HDMI	4	Bi	3.3	0.2	2	22	DFN2.5×1.0-10
SYT01L05DWC	Audio/Key	1	Bi	5	2.2	2	24	DFN1.0×0.6-2
SYT06U05ABC	USB/VGA/HDMI	4	Uni	5	0.6	3	36	SOT23-6
SYT07S05SBC	USB3.0	6	Uni	5	0.3	3	45	DFN4.1×2.0-10
SYT06U05DVC	HDMI1.4	4	Uni	5	0.6	3	36	DFN2.5×1.0-10
SYT01S03DWC	HDMI2.0	1	Bi	3.3	0.25	3	40	DFN1.0×0.6-2
SYT16S03DVC	HDMI/USB	4	Bi	3.3	0.25	3	50	DFN2.5×1.0-10
SYT06S03DVC	USB3.0/HDMI2.0	4	Uni	3.3	0.35	3.5	35	DFN2.5×1.0-10
SYT01A03DXC	USB3.1 Type-C/HDMI2.0	1	Bi	3.3	0.15	4	50	DFN0.6×0.3-2
SYT01M05DWC	Audio/Key	1	Bi	5	12	4	50	DFN1.0×0.6-2
SYT01M05DXC	Audio/Key	1	Bi	5	12	4	50	DFN0.6×0.3-2
SYT03S05SHC	USB2.0, Smart Phone	2	Uni	5	0.6	4	50	DFN1.2×1.0-6
SYT03S05SIC	USB2.0, Smart Phone	2	Uni	5	0.6	4	50	DFN1.6×1.0-6
SYT13U05AOC	USB2.0	2	Uni	5	0.6	4	50	SOT-23
SYT01N24DWC	USB Vbus, Smart Phone	1	Bi	24	12	4	180	DFN1.0×0.6-2
SYT01M12DWC	12V Low Speed Interface	1	Bi	12	4	4	90	DFN1.0×0.6-2
SYT01M12DXC	12V Low Speed Interface	1	Bi	12	4	4	90	DFN0.6×0.3-2
SYT01A05DXC	5V High Speed Interface, USB-C	1	Bi	5	0.15	4	55	DFN0.6×0.3-2
SYT18A03SFC	USB3.x	8	Uni	3.3	0.42	6	30	DFN3.8×1.0-9

TVS Protection

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT02U05DWC	USB3.0	1	Uni	5	0.5	4	50	DFN1.0×0.6-2
SYT46S05DVD	HDMI/USB	4	Bi	5	0.5	4.5	45	DFN2.5×1.0-10
SYT21S05DWC	HDMI/USB	1	Bi	5	0.5	4.5	45	DFN1.0×0.6-2
SYT11S05DWC	Low Cap ESD for High-speed Interface	1	Bi	5.5	0.3	5.5	70	DFN1.0×0.6-2
SYT16A03DVC	4-CH ESD Array for USB-C	4	Uni	3.3	0.3	6	40	DFN2.5×1.0-10
SYT26S05DVC	HDMI/USB	4	Uni	5	0.5	6	42	DFN2.5×1.0-10
SYT21A01DXC	USB3.x, USB Type-C,Thunderbolt	1	Bi	1.5	0.15	7	35	DFN0.6×0.3-2
SYT21S03DWC	HDMI/USB	1	Bi	3.3	0.4	7	56	DFN1.0×0.6-2
SYT46S03DVD	HDMI/USB	4	Bi	3.3	0.4	7	56	DFN2.5×1.0-10
SYT01N12DWC	USB Vbus, Smart Phone	1	Bi	12	25	7.5	210	DFN1.0×0.6-2
SYT04L05AWC	USB2.0	2	Uni	5	1.2	7.5	100	SOT-143
SYT05S05ABC	USB/VGA	4	Uni	5	1.2	8	100	SOT23-6
SYT21A05DXC	USB3.x, USB Type-C	1	Bi	5	0.2	9	55	DFN0.6×0.3-2
SYT21S24DXC	USB-C/RF Antenna	2	Bi	24.5	0.2	9	50	DFN0.6×0.3-2
SYT11L05DWC	Normal Cap ESD for General I/O	1	Bi	5	2	10	100	DFN1.0×0.6-2
SYT11L05DXC	Normal Cap ESD for General I/O	1	Bi	5	2	10	100	DFN0.6×0.3-2
SYT21A05DWD	Ultra-low Cap ESD for High-speed Interface	1	Bi	5	0.28	10	65	DFN1.0×0.6-2
SYT01L03DWC	3.3V High Speed Interface	1	Bi	3.3	1	12	120	DFN1.0×0.6-2
SYT01L03DXC	3.3V High Speed Interface	1	Bi	3.3	1	12	120	DFN0.6×0.3-2
SYT36S03DVC	Low Cap ESD Array for High-speed Interface	4	Uni	3.3	0.6	12	60	DFN2.5×1.0-10
SYT13L03AOC	high-speed & general IO ESD protection	2	Bi	3.6	1	12	120	SOT-23
SYT01N05ANC	Audio/Key	1	Bi	5	30	12	130	SOD523
SYT01N05DWC	Audio/Key	1	Bi	5	30	12	130	DFN1.0×0.6-2

TVS Protection

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT01N03ANC	Audio/Key	1	Bi	3.3	27	15	140	SOD523
SYT01N03DWC	Audio/Key	1	Bi	3.3	27	15	140	DFN1.0×0.6-2
SYT01N03DXC	3.3V Low Speed Interface	1	Bi	3.3	27	15	140	DFN0.6×0.3-2
SYT06L05ABC	VGA/RJ45	4	Uni	5	3.5	20	350	SOT23-6
NEW SYT31A01DXD	USB4,TB4,USB TYPE-C	1	Bi	1.5	0.17	6	24	DFN0.6x0.3-2
NEW SYT36A03DVD	HDMI2.1	4	Uni	3.3	0.35	4	36	DFN2.5x1.0-10
NEW SYT11N05DWD	Audio/Key	1	Bi	5	23	10	90	DFN1.0x0.6-2
NEW SYT21N05DWD	Audio/Key	1	Bi	5	45	20	180	DFN1.0x0.6-2

EMI Filter

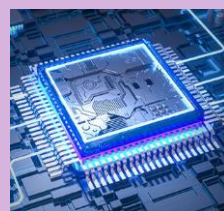
Part Number	Application	Channels	Direction	V _{RWM} (V)	fc(GHz)	IL	Atten	Package
SYE25C02SSC	MIPI/HDMI	4	Uni	5	2.5	-0.6dB@10MHz	-35dB@1.0GHz	DFN2.5×2.0-10
SYE40C02SSC	MIPI/HDMI	4	Uni	5	4.0	-0.33dB@10MHz	-35dB@1.5GHz	DFN2.5×2.0-10

Surge Protection

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS11U24AMC	RJ45	1	Bi	24	0.6	6	550	SOD323
SYS03N24AOC	RS232,STB	2	Uni	24	120	8	300	SOT-23
SYS11U18AMC	RJ45	1	Bi	18	0.6	8	550	SOD323
SYS11U15AMC	RJ45	1	Bi	15	0.8	10	550	SOD323
SYS13L02SJC	RJ45	2	Bi	2.5	0.4	10	100	DFN2.0×1.0-8
SYS13U02SJC	RJ45	2	Bi	2.5	0.4	10	100	DFN2.0×1.0-8
SYS11U12AMC	RJ45	1	Bi	12	0.6	12	550	SOD323
SYS11U08AMC	RJ45	1	Bi	8	0.6	15	550	SOD323
SYS02H12AMC	DC IN	1	Uni	12	150	20	500	SOD323
SYS11U05AMC	RJ45	1	Bi	5	0.6	20	550	SOD323
SYS01H12AMC	Desktops, Servers and Notebooks	1	Bi	12	70	20	550	SOD-323
SYS03H12AOC	Desktops, Servers and Notebooks	2	Uni	12	140	20	500	SOT-23
SYS01V05AMC	DC IN	1	Bi	5	200	24	350	SOD323
SYS11U03AMC	RJ45	1	Bi	3.3	0.6	25	550	SOD323
SYS11L03SEC	RJ45	4	Uni	3.3	3.5	25	450	DFN2.5×2.5-10
SYS12V20SLC	Vbus	1	Uni	20	210	25	850	DFN1.6×1.0-2
SYS02V05AMC	DC IN	1	Uni	5	350	40	500	SOD323
SYS14L02DHC	RJ45	4	Uni	2.5	3.5	40	1000	DFN3.0×2.0-10
SYS02V12AMC	12V Vbus surge protection	1	Uni	12	400	42	1000	SOD323
SYS42L02FAC	RJ45	2	Bi	2.8	1.2	50	1000	SOP-8
SYS12V12SLC	Vbus	1	Uni	12.5	400	52	1100	DFN1.6×1.0-2
SYS12V05SLC	Vbattery,Smart Phone	1	Uni	5	1100	100	1300	DFN1.6×1.0-2
SYS12V05AMC	Surge protection TVS for Power line	1	Uni	5.5	1100	100	1300	SOD-323

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS12X12SKC	DC IN	1	Uni	12	1200	150	3500	DFN2.0×2.0-2
SYS22V05SLC	Vbus & Vbat surge protection	1	Uni	5	2100	200	2100	DFN1.6×1.0-2
SYS12X07SKC	DC IN	1	Uni	7	1900	200	3500	DFN2.0×2.0-2
SYS02X05AUC	Vbus,Power Supply	1	Uni	5	1900	205	2750	SOD-123
SYS22V04SLC	Vbus & Vbat surge protection	1	Uni	4.5	1100	240	3100	DFN1.6×1.0-2
SYS02H24DWD	Vbus/Vbat	1	Uni	24	85	9	320	DFN1.0×0.6-2
NEW SYS12V28SLD	VBUS	1	Uni	28	140	25	1000	DFN1.6x1.0-2
NEW SYS12V36SLD	VBUS	1	Uni	36	95	17	900	DFN1.6x1.0-2
NEW SYS12V48SLD	VBUS	1	Uni	48	60	12	750	DFN1.6x1.0-2
NEW SYS04M12THD	RS485	2	Uni	12	6	100	3000	DFN2.0x2.0-5

SOC



Energy Measurement

Part Number	User MPU Core	Signal Processing Core	Vsupply (V)	Total Sensor Inputs	Internal Flash (KBytes)	Internal RAM (KBytes)	Slave Host Interface(s)	Package/Pins	Notes
MAX71071	None	None	See Datasheet	2	None	None	Proprietary	μSOP/10	ADC to be used with MAX78615+PPM or MAX78615+LMU
MAX78700	None	None	See Datasheet	4	None	None	Proprietary	μSOP/10	ADC to be used with MAX78615+PPM or MAX78615+LMU
MAX71020A	None	CE	3.3	1V, 1I	OTP	1	SPI	TQFN/28 ,TSSOP/28	Single Phase
78M6610+PSD	None	EMP	3.3	1V, 1I, 1T	8	1.5	I2C ,SPI ,UART	TQFN/24 ,TSSOP/16	Single Phase
SY7T609+R1	None	EMP	3.3	1V, 1I	8		SPI, UART	TSSOP/14	Single Phase
SY7T609+S1	None	EMP	3.3	1V, 1I	8	1.5	SPI, UART	TSSOP/14	Single Phase
SY7T611+S2	None	EMP	3.3	1V, 2I	8		SPI, UART	TSSOP/14	Single Phase
SY7T612+S3	None	EMP	3.3	1V, 3I	8	1.5	SPI, UART	TSSOP/14	Single Phase
MAX78615+LMU	None	EMP	3.3	2V, 2I	8	1.5	I2C ,SPI ,UART	TQFN/24	Galvanic Isolation (Magnetic) Single Phase Chipset
MAX78615+PPM	None	EMP	3.3	3V, 3I	8	1.5	I2C ,SPI ,UART	TQFN/24	Galvanic Isolation (Magnetic), Polyphase Chipset
MAX78630+PPM	None	EMP	3.3	3V, 3I	8	1.5	I2C ,SPI ,UART	TQFN/32	Polyphase
78M6610+LMU	None	EMP	3.3	2V, 2I	8	1.5	I2C ,SPI ,UART	TQFN/24	Single Phase
78M6631*	80515	CE	3.3	3V, 3I	128	4	SPI ,UART	TQFN/56	Polyphase
78M6612*	80515	CE	3.3	2V, 2I	32	2	UART	LQFP/64 ,SQFN/68	Single Phase
78M6613*	80515	CE	3.3	2V, 2I	32	2	UART	SQFN/32	Single Phase
78M6618	80515	CE	3.3	10 (Configurable)	128	4	SPI ,UART	SQFN/68	Single Phase, Polyphase Multi-Branch
NEW SY7T501FAC	None	None	3.3	2	None	None	UART	SOP8	Single Phase, Hard-coded IC
NEW SY7T502FBC	None	None	3.3	2	None	None	UART	MSOP10	Single Phase, Hard-coded IC

* Not recommended for new design

Electricity Metering

Part Number	Phase	Internal Flash (KBytes)	Internal RAM (KBytes)	Analog Input	Sensor Inputs (Current+Voltage)**	MCU MIPS	RTC	LCD Driver Pixels (Max)	GPIO	UARTs	SPI Port	Package/ Pins
71M6201	1P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6601	1P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6103	3P			Differential	1I	-	No	No	No	No	No	SO-8
71M6203	3P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6113	3P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6511*	1P	64	7	Single-end	2SE + 1	5	Yes	128 (32x4)	12	2	-	LQFP-64
71M6511H*	1P	64	7	Single-end	2SE + 1	5	Yes	128 (32x4)	12	2	-	LQFP-64
71M6513*	3P	64	7	Single-end	4SE + 3	5	Yes	168 (42x4)	22	2	-	LQFP-100
71M6513H *	3P	64	7	Single-end	4SE + 3	5	Yes	168 (42x4)	22	2	-	LQFP-100
71M6515H *	3P	64	7	Single-end	4SE + 3	5	Yes	-	8	1	-	LQFP-64
71M6521DE*	1P/2P	16	2	Single-end	2SE + 2	5	Yes	152(38x4) (41*4)	13(17)	2	-	LQFP-64 or QFN-68
71M6521FE*	1P/2P	32	2	Single-end	2SE + 2	5	Yes	152(38x4) (41*4)	13(17)	2	-	LQFP-64 or QFN-68
71M6531D	1P/2P	128	4	Single-end	2SE + 2	10	Yes	156 (39x4)	22	2	Yes	QFN-68
71M6531F	1P/2P	256	4	Single-end	2SE + 2	10	Yes	156 (39x4)	22	2	Yes	QFN-68
71M6532D	1P/2P	128	4	Differential	2D + 2	10	Yes	268 (67x4)	43	2	Yes	LQFP-100
71M6532F	1P/2P	256	4	Differential	2D + 2	10	Yes	268 (67x4)	43	2	Yes	LQFP-100
71M6533	3P	128	4	Differential	4D + 3	10	Yes	228 (57x4)	39	2	Yes	LQFP-100
71M6533H	3P	128	4	Differential	4D + 3	10	Yes	228 (57x4)	39	2	Yes	LQFP-100
71M6534	3P	128	4	Differential	4D + 3	10	Yes	300 (75x4)	52	2	Yes	LQFP-120
71M6534H	3P	256	4	Differential	4D + 3	10	Yes	300 (75x4)	52	2	Yes	LQFP-120
71M6541D	1P	32	3	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64

Electricity Metering

Part Number	Phase	Internal Flash (KBytes)	Internal RAM (KBytes)	Analog Input	Sensor Inputs (Current+ Voltage)**	MCU MIPS	RTC	LCD Driver Pixels (Max)	GPIO	UARTs	SPI Port	Package/Pins
71M6541F	1P	64	5	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64
71M6541G	1P	128	5	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64
71M6541DT	1P	32	3	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64
71M6541FT	1P	64	5	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64
71M6541GT	1P	128	5	Differential	2D + 1	5	Yes	222 (37x6)	32	2	Yes	LQFP-64
71M6542F	1P/2P	64	5	Differential	2D + 2	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6542G	1P/2P	128	5	Differential	2D + 2	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6542FT	1P/2P	64	5	Differential	2D + 2	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6542GT	1P/2P	128	5	Differential	2D + 2	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543F	3P	64	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543G	3P	128	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543FT	3P	64	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543GT	3P	128	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543HT	3P	64	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6543GHT	3P	128	5	Differential	4D + 3	5	Yes	336 (56x6)	51	2	Yes	LQFP-100
71M6545	3P	64	5	Differential	4D + 3	5	Yes	-	29	1	Yes	LQFP-64
71M6545H	3P	64	5	Differential	4D + 3	5	Yes	-	29	1	Yes	LQFP-64
71M6545T	3P	64	5	Differential	4D + 3	5	Yes	-	29	1	Yes	LQFP-64
71M6545HT	3P	64	5	Differential	4D + 3	5	Yes	-	29	1	Yes	LQFP-64
MAX71313L	1P/2P	64	8	Differential	2D + 2	10	Yes	156 (39x4), 190 (38x5), 222 (37x6)	39	3	Yes	LQFP-64
MAX71314L	1P/2P	128	8	Differential	2D + 2	10	Yes	156 (39x4), 190 (38x5), 222 (37x6)	39	3	Yes	LQFP-64

Electricity Metering

Part Number	Phase	Internal Flash (KBytes)	Internal RAM (KBytes)	Analog Input	Sensor Inputs (Current+Voltage)**	MCU MIPS	RTC	LCD Driver Pixels (Max)	GPIO	UARTs	SPI Port	Package/ Pins
MAX71314C	1P	128	21	Differential	2D + 2	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	54	4	Yes	LQFP-100
MAX71315C	1P	256	21	Differential	2D + 2	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	54	4	Yes	LQFP-100
MAX71334C	3P	128	21	Differential	3D/15E + 3SE	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	52	4	Yes	LQFP-100
MAX71335C	3P	256	21	Differential	3D/15E + 3SE	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	52	4	Yes	LQFP-100
MAX71315S	1P	256	48	Differential	2D + 2	20	Yes	160 (40x4), 228 (38x6), 288 (36x8)	88	5	Yes	LQFP-128
MAX71335S	3P	256	48	Differential	4D + 3	20	Yes	160 (40x4), 228 (38x6), 288 (36x8)	88	5	Yes	LQFP-128
MAX71316S	1P	512	48	Differential	2D + 2	20	Yes	160 (40x4), 228 (38x6), 288 (36x8)	88	5	Yes	LQFP-128
MAX71336S	3P	512	48	Differential	4D + 3	20	Yes	160 (40x4), 228 (38x6), 288 (36x8)	88	5	Yes	LQFP-128
SY7M163G	1P	128	21	Differential	2D + 2	20	Yes	-	38	2	Yes	QFN-68
SY7M166H	3P	256	21	Differential	3D /15+ 3	20	Yes	-	38	2	Yes	QFN-68
SY7T166G	3P	128	21	Differential	3D/15+ 3	20	Yes	-	38	2	Yes	QFN-68
SY7T166GH	3P	256	21	Differential	3D/15+ 3	20	Yes	-	38	2	Yes	QFN-68
SY7T108E	1P	32	8	Differential	2D +15E	10	Yes	160 (40x4), 228 (38x6), 288 (36x8)	45	3	Yes	LQFP-64
SY7T108F	1P	64	8	Differential	2D +15E	10	Yes	160 (40x4), 228 (38x6), 288 (36x8)	45	3	Yes	LQFP-64
SY7M007	3P	-	-	Differential	1U+1I	-	-	-	-	-	-	TQFN-16
SY7T625	3P		-	-	-	20	No	-	16	-	Yes	TQFN-32

* Not recommended for new design.

** D = Differential input, SE = Single End input, U = Voltage, I = Current

Silergy designs mixed-signal integrated circuits used in energy, automation, networking, and secure access systems. Silergy Teridian's ICs connect customers' digital systems to the analog inputs found in utility metering, industrial automation, set top box, digital TV, voice over IP, electronic identity, and point-of-sale applications.

Contact Us

Silergy Corp. was founded by a group of technology innovators and business leaders with an average 30 years' experience. We design innovative mixed-signal and analog ICs that utilize our industry-leading process technologies. Widely used in industrial, consumer, computing and communication devices, our products are designed to improve efficiency and to conserve or measure energy use.

Silergy Corp is a Cayman Island company with its operations headquarters in Hangzhou, China. The company stock is traded on Taiwan Stock Exchange (TWSE: 6415)

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