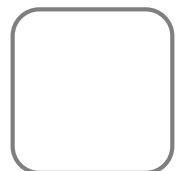




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Q3 2024

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Single Output Step Down (Buck) Converter, V_{IN} Max < 7V (Temp Range -40°C to 125°C)

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	V_{REF} Accuracy	Quiescent Current (μ A)	MOSFET (R_{on} H/L) (m Ω)	SST	Temp Range	PG	Output Discharge	Feature/ Special Function	Package
	Min (V)	Max (V)												
SQ28072ART	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	21	45/35	600 μ s Internal	-40°C to 125°C		v	PFM, Hic-cup SCP	SOT563
SQ28053QWC	2.75	5.5	3	1.5	0.6	$\pm 2.0\%$		85/50	External	-40°C to 125°C		v	CCM, Hic-cup SCP	QFN1.5 \times 1.5-7
SQ28703SYD	2.5	6	3	2.4	0.8	$\pm 1.5\%$	23	31/23	0.8ms Internal	-40°C to 125°C	v	v	Hic-cup SCP	DFN2 \times 2-7
SQ28003DQD	2.5	5.5	3	2.2	0.6	$\pm 1.0\%$	21	38/30	2ms Internal	-40°C to 125°C	v	v	PFM, Hic-cup SCP	DFN1.5 \times 1.5
SQ28004DQD	2.5	5.5	4	2.2	0.6	$\pm 1.0\%$	21	38/30	2ms Internal	-40°C to 125°C	v	v	PFM, Hic-cup SCP	DFN1.5 \times 1.5
SQ28704SYD	2.5	6	4	2.4	0.6	$\pm 1.5\%$	23	25/17	0.8ms Internal	-40°C to 125°C	v	v	Hic-cup SCP	DFN2 \times 2-7
SQ28706SYD	2.5	6	6	1	0.6	$\pm 1.5\%$	23	22/12	0.8ms Internal	-40°C to 125°C	v	v	Hic-cup SCP	DFN2 \times 2-7
SQ28906QDC	2.95	6	6	0.2~2	0.6	$\pm 1.0\%$		12/12	External	-40°C to 125°C	v		CCM, External COMP, Hic-cup SCP	QFN3 \times 3-16
SQ28956WEQ	0.8	6	6	0.6/1	0.4	$\pm 1.0\%$		18/10	1.6ms Internal	-40°C to 125°C	v	v	PFM or FCCM Hic-cup SCP	QFN3.5 \times 4-20

Single Output Step Down (Buck) Converter, V_{IN} Max > 7V (Temp Range -40°C to 125°C)

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	V_{REF} Accuracy	Quiescent Current (μ A)	MOSFET (R_{on} H/L) (m Ω)	SST	Temp Range	PG	Output Discharge	Feature/ Special Function	Package
	Min (V)	Max (V)												
SQ27000SXC	7	100	0.6	0.2~1	1.225	$\pm 2.0\%$	/	500/285	2ms Internal	-40°C to 125°C			FCCM, Programmable Switching Frequency Range: 200kHz ~600kHz	DFN4 \times 4-8
SQ27000FCC	7	100	0.6	0.2~0.6	1.225	$\pm 2.0\%$	/	500/285	2ms Internal	-40°C to 125°C			FCCM, Programmable Switching Frequency Range: 200kHz ~600kHz	SO8E
SQ27001FCC	7	100	1	0.2~0.6	1.225	$\pm 2.0\%$	/	500/240	Internal	-40°C to 125°C			Programmable Switching Frequency Range: 200kHz ~600kHz	SO8E
SQ27692FCC	4.5	60	2	0.1~1	0.8	$\pm 1.5\%$	100	175/	2ms Internal	-40°C to 125°C	v		Hic-cup SCP	SO8E
SQ20953AIC	4.5	30	3	0.5~2.5	0.6	$\pm 3\%$	19	110/70	1ms Internal	-40°C to 125°C			Hic-cup SCP	TSOT23-8
SQ27403FCA	4.2	40	3.5	0.3~2.2	0.6	$\pm 2.0\%$	18	115/80	1ms Internal	-40°C to 105°C	v		Hic-cup SCP	SO8E
SQ27693FCP	4.5	60	3.5	0.1~2.5	0.8	$\pm 1.0\%$	152	95/	2ms Internal	-40°C to 125°C			Accurate Feedback Set Point: 0.8V $\pm 1\%$ from -40°C to 125°C	SO8E
SQ29004RHQ	5.2	18	4	2	0.6	$\pm 1.83\%$	75	50/25	Programmable	-40°C to 125°C	v		Programmable Soft-start	QFN2.5 \times 2.5 -16
SQ20056RAC	4	23	6	0.6	0.6	$\pm 1.0\%$	120	38/19	1.3ms Internal		v	v	Power Good Indicator, Hic-cup SCP, PFM/PWM	QFN3 \times 3-20
SQ29063BWYQ	2.85	16	6	0.66/ 1.1/2.2	0.9	$\pm 1.0\%$	850	22.1/8.1	Programmable	-40°C to 125°C	v	v	Programmable Valley Current Limit & Soft-start, Latch-off Protection, PFM/FCCM	QFN2 \times 3-14

Single Output Step Down (Buck) Converter, V_{IN} Max >7V (Temp Range -40°C to 125°C)

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	V_{REF} Accuracy	Quiescent Current (μ A)	MOSFET (R_{on} H/L) (m Ω)	SST	Temp Range	PG	Output Discharge	Feature/ Special Function	Package
SQ29066BWYQ	2.85	16	6	0.66/ 1.1/2.2	0.6	$\pm 1.0\%$	850	22.1/8.1	Programmable	-40°C to 125°C	\checkmark	\checkmark	Programmable Valley Current Limit & Soft-start, Hic-cup Protection, PFM/FCCM	QFN2 \times 3-14
SQ20058RAC	4	23	8	0.6	0.6	$\pm 1.0\%$	120	22/11	1.1ms Internal		\checkmark	\checkmark	Power Good Indicator, Hic-cup SCP, PFM/PWM	QFN3 \times 3-20
SQ29047WZQ	4.5	17	12	0.4/0.8 /1.2	0.6	$\pm 1.0\%$	600	9.8/4.5	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Power Good Indicator, pre-bias startup, FCCM/PFM	QFN3.5 \times 3.5-18
SQ29012VDC	2.7	16	12	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	650	12.6/4.3	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3 \times 4-19
NEW													Remote sense, seamless ILMT, pre-bias startup, Ultra fast load transient, OSM, Output tracking	QFN3 \times 4-21
SQ29069TXQ	2.7	16	12	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	650	13.3/3.8	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup	QFN3 \times 4-21
SQ29072TXQ	2.7	16	12	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	650	12.6/4.3	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup	QFN3 \times 4-21
NEW													Remote sense, seamless ILMT, pre-bias startup, Ultra fast load transient, OSM, Output tracking	QFN3 \times 4-21
SQ29071TXQ	2.7	16	20	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	650	8.6/2.5	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup	QFN3 \times 4-21
SQ29020VDC	2.9	16	20	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	550	7.5/2.4	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3 \times 4-19
SQ29080TXQ	2.9	16	20	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	550	7.5/2.4	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3 \times 4-21
SQ29090VDQ	2.9	16	20	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	550	8.6/2.5	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3 \times 4-19
SQ29090TXQ	2.9	16	20	0.6/0.8 /1.0	0.6	$\pm 1.0\%$	550	8.6/2.5	Internal & Adjustable	-40°C to 125°C	\checkmark	\checkmark	Remote sense, seamless ILMT, pre-bias startup, FCCM/PFM	QFN3 \times 4-21
SQ25821NIG	3	16	15/ per phase	0.4~ 1.8	0.4	$\pm 1.0\%$ ($V_{ref} \geq$ 600mV)	4000	9/4	Adjustable	-40°C to 125°C	\checkmark	\checkmark	Stackable Dual Phase Synchronous Step-down Converter, PMBus Compatible Interface, Black-Box Function	LGA6 \times 6-42
SQ20903QDQ (Controller)	4.5	19	/	0.5	0.6	$\pm 1.0\%$	1mA (max.)	/	Programmable	-40°C to 125°C	\checkmark	\checkmark	Programmable Soft-start/ Switching frequency/Over current limit, USM or FCCM	QFN3 \times 3-16

Single Output Step Up (Boost) Converter (Low Voltage) (Temp Range -40°C to 125°C)

Part Number	V_{IN} Min (V)	V_{IN} Max (V)	I_{LIM} (A)	f_{sw} (MHz)	V_{OUT} (max) (V)	Sync Boost	V_{REF} Accuracy	Input Quiescent Current (μ A)	MOSFET(R_{on} Main/ Sync) (m Ω)	Feature/ Special Function	Package
SQ25052ABC	0.98	5.5	2	1	5.5	Y	1.2V \pm 1.5%	0.7	100/170	Auto Bypass Mode When $V_{IN} \geq V_{OUT}$ -OVP	SOT23-6
SQ25201QDQ	2.8	5.5	0.68	0.85	70	N	external	500	600	2.5mA Precision Protection APD Bias, Dual-Gain Track/Hold Current Mirror	QFN3 \times 3-16

Single Output Step Up (Boost) Converter (High Voltage) (Temp Range -40°C to 125°C)

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	I _{OUT} (max) (A)	f _{sw} (MHz)	V _{OUT} (max) (V)	Sync Boost	V _{REF} Accuracy	Input Quiescent Current (μA)	MOSFET(Ron Main/Sync) (mΩ)	Feature/ Special Function	Package
SQ25202ABC	3	30	2	1	33	N	0.6V±3%	100	200/-	Internal SS/Comp	SOT23-6
SQ25110ARAC	2.9	16	10	0.4~2	16	Y	1V±2%	200	10/20	PFM/PWM Light Load Operation Mode, OVP, Programmable Switching Frequency: 0.4~2MHz, Programmable I _{LIM} : 2~10A	QFN3×3-20
SQ25250ABC	3	30	0.6	1	33	N	1.24V±2%	100	400/-	Internal SS/Comp	SOT23-6

DC-DC PWM Controller (External Switch) (Temp Range -40°C to 125°C)

Part Number	V _{IN} (min) (V)	V _{IN} (max) (V)	f _{sw} (MHz)	V _{REF} Accuracy	Quiescent Current (μA)	Temp Range	Feature/ Special Function	Package
SQ25902AFHC	3	25	0.3	1V±8%	130	-40°C to 125°C	Current mode DC/DC controller targeted for both Boost and SEPIC applications with DC Output Current Limit	SSOP10

Power Stage DrMOS (Temp Range -40°C to 125°C)

Part Number	Package	VCC/DRV Supply Voltage (V)	V _{IN} (V)	Continuous Output Current (A)	IMON Output Type	Overall Accuracy	REFIN Range (V)	f _{sw} (kHz)	Temp Range	Features
SQ29663XBQ	QFN5×6-41	5	5~16	70	Voltage Output	±5%	1~2	250~1000	-40°C to 125°C	16V, 70A co-package DrMOS
NEW										
SQ29670NGG	LGA5×6-41	3.3	5~16	70	Current Type	±5%	1~1.4	200~2000	-40°C to 125°C	16V, 70A DrMOS

Multiphase Controller (Temp Range -40°C to 125°C)

Part Number	Package	Number of Output Rail	Number of Phases	Supply Voltage (V)	f _{sw} (kHz)	Interfaces	Temp Range	Typical Application	Features
SQ51201QJQ	QFN7×7-48	1	6	3.3	300-1000	PMBus	-40°C to 125°C	ASIC, Networking, ASSP	Ripple-based COT control with built-in flexible loop compensation, single rail 6 phase digital controller
NEW									
SQ51202QJQ	QFN7×7-48	1	6	3.3	300-1200	PMBus	-40°C to 125°C	ASIC, Networking, ASSP	Ripple-based COT control with built-in flexible loop compensation, single rail 6 phase digital controller, enhanced version
NEW									
SQ51225QJQ	QFN7×7-48	2	N+M≤5 (M≤2)	5	300-2000	PMBus AVSBus	-40°C to 125°C	ASIC, Networking, ASSP	Ripple-based COT control with built-in flexible loop compensation, dual rail, phases with N+M≤5 (M≤2) digital controller

LDO Regulator (Temp Range-40°C to 125°C)

Part Number	V _{IN} (min) (V)	V _{IN} (max) (V)	Output Voltage Range (V)	I _{OUT} (A)	V _{FB} / V _{ADJ}	V _{FB} /V _{ADJ} Accuracy	PSRR	Dropout Voltage (mV)	Temp Range	Function	Package
SQ24340DED	2.5	30	Adjustable	0.15	0.6	±2%	50dB@1kHz	150	-40°C to 125°C	LDO Regulator	DFN2x2-6
SQ24345HDGD	4	36	Adjustable	0.5	1.235	±1%	60dB @1kHz	500	-40°C to 125°C	LDO Regulator	DFN2x3-8
SQ24301DSD	1.6	5.5	Adjustable	1	1	±5%	-60dB@1kHz	320mV@V _{OUT} =1.5V 180mV@V _{OUT} =2.8V	-40°C to 125°C	LDO Regulator Current Limiting Protection	DFN3x3-6
SQ24302FCC	1.5	6	Adjustable	2	0.5	±2%	30dB@100kHz	400mV@2A	-40°C to 125°C	2A LDO with Enable	SO8E
SQ24302DAC	1.5	6	Adjustable	2	0.5	±2%	30dB@100kHz	400mV@2A	-40°C to 125°C	2A LDO with Enable	DFN3x3-8
SQ24335BTDD	2.375	3.5	Adjustable	2				/	-40°C to 125°C	Sink and Source DDR Termination Regulator	DFN2x2-10
SQ24333MAB	3	18	Adjustable	3	1.24	±2%	30dB @100kHz	480	-40°C to 125°C	LDO Regulator	TO263-5
SQ24335DBD	2.375	3.5	Adjustable	3				/	-40°C to 125°C	Sink and Source DDR Termination Regulator	DFN3x3-10

Protection Switch (Temp Range-40°C to 125°C)

Part Number	Package	Enable Logic	OCF	OVP	Output Clamp	Output Discharge	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)}	Special Function
SQ24806AQSC	QFN3x4-20	H	Y	Y		N	1	2.7~18	0.6~5.3	42mΩ	Output Reverse Blocking
SQ24806BQSQ	QFN3x4-20	H	Y	Y		N	1	2.7~18	0.6~5.3	42mΩ	4ms Fault Timer Then Shutoff
SQ24092ZDEC	DFN2x2-6	H	Y	N		Y	1	2.5~5.5	2	65mΩ	Output Discharge at Shutdown Reverse Blocking, Fast OCP, OCB Indicator
SQ24201EDED	DFN2×2-6	H	Y	N		Y	1	2.5~5.5	0~2	65mΩ	Programmable Current Limit, Fast Reverse Recovery, OCB Indicator
SQ24815BDBC	DFN3x3-10	H	Y	Y	Y	Y	1	2.5~18	1A/2A	40mΩ	2 Level Current Limit (1.4A/2.75A), Prog.SS, Selectable Input /Clamping Voltage Range
SQ24815CDBC	DFN3x3-10	H	Y	Y	Y	Y	1	2.5~18	5	40mΩ	Fixed Current Limit, Prog.SS,3.3V/5V Selectable Power Rail with 2.4V UVLO
SQ24802LTLQ	QFN2x2-12	H	Y	N		Y	1	2.5~16	5	30mΩ	Blocking FET Control, Programmable OUT Slew Rate Built-in Thermal Shutdown and Latch-off
NEW											Adjustable Current Limit
SQ24802KDFD	DFN2x2-8	H	Y	Y	Y	N	1	4.2~16	0~5	31mΩ	Adjustable Output Slew Rate Control Overtemperature/Overvoltage Protection
NEW											Adjustable Current Limit
SQ24802K1DFD	DFN2x2-8	H	Y	Y	Y	N	1	4.2~16	0~5	31mΩ	Adjustable Output Slew Rate Control Overtemperature/Overvoltage Protection
SQ24026DUC	DFN3x2-14	H	N	N		Y	2	0.8~5.5	6	18mΩ	Dual-channel, Programmable Soft-start Time
SQ24010ADHC	DFN2x3-10	H	N	N		Y	1	0.6~5.5	10	2.8mΩ	Controlled and Adjustable Slew Rate, Power Good Indicator
SQ24801DCD	DFN3x3-12	H	Y	N		Y	1	0.5~13.5	0~24	4.1mΩ	Advanced Controller with Charge Pump Controlled and Adjustable Slew Rate, Load Bleed (Quick Discharge)
NEW											Advanced Controller with Charge Pump
SQ24801BDCD	DFN3x3-12	H	Y	N		Y	1	3~24	0~10	5.2mΩ	Programmable Soft Start Time Fault Detection with Power Good Output

Protection Switch (Temp Range -40°C to 125°C)

Part Number	Package	Enable Logic	OCP	OVP	Output Clamp	Output Discharge	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)}	Special Function
NEW											
SQ24801CDCD	DFN3x3-12	H	Y	N		Y	1	3~24	0~20	3.8mΩ	Advanced Controller with Charge Pump Programmable Soft Start Time Fault Detection with Power Good Output
SQ24800QEQ	QFN5×5-32	H	Y	N	N	Y, V _{ON} <1.2V	1	4.5~18	0~50	0.76mΩ	Current Monitor, Auto Retry for Fault Response, 80A SCP Threshold, Adjustable Slew Rate Control/ Current Limit/Over Current Alert Output
NEW											
SQ24800BQEQ	QFN5×5-32	H	Y	N	N	Y, 0.8V<V _{ON} <1.2V	1	4.5~18	0~50	0.76mΩ	Current Monitor, Latch off for Fault Response, 100A SCP Threshold Adjustable Slew Rate Control/ Current Limit/Over Current Alert Output

Hotswap ORing (Temp Range -40°C to 125°C)

Part Number	Package	Enable Logic	OCP	OVP	No. of Channels	V _{IN} (V)	V _{OUT} (V)	Temp Range	Special Function
SQ24900IAC	DFN4x3-14	H	Y		2	6~80	0~80	-40°C to 125°C	Dual input, Positive High Voltage Ideal Diode-OR with Input Supply and Fuse Monitors
SQ24901HKC	TSSOP16	Y	Y	Y	1	-10~-200	0~-80	-40°C to 125°C	Integrated ORing Controller, Dual Hot Swap Gate Driver
SQ24902FBC	MSOP10	/	/	/	1	1.5~60	0~60	-40°C to 125°C	IEEE802.3bt PD Interface Controller
SQ24902BDBD	DFN3x3-10	/	/	/	1	1.5~60	0~60	-40°C to 125°C	IEEE 802.3af/at-compliant PD Interface Controller
SQ24903FBP	MSOP10	H	Y		1	2.5~18	0~18	-40°C to 125°C	Power Limiting Hotswap Controller/Fault Timer/ UV Threshold/Programmable FET SOA Protection

Supervisor & Reset ICs (Temp Range -40°C to 125°C)

Part Number	Package	Number of Supplies Monitored	Output Driver/ Reset Output	Threshold Voltage (V)	Delay Time (ms)	Reset Threshold Accuracy	Quiescent Current (μA)	Temp Range	Features
SQ24370ADTD	DFN1.45×1-6	1	Active high, Push-pull	Adjustable	Programmable	±1%	9	-40°C to 125°C	EN ON delay time programmable
SQ24370EDTD	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	-40°C to 125°C	EN ON delay time programmable
SQ24370FDTD	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	-40°C to 125°C	200ns EN ON delay time

Charge Pump (Temp Range -40°C to 125°C)

Part Number	Package	Enable Logic	V _{IN} (V)	V _{OUT} (V)	No. of Channels	Quiescent Current (mA)	I _{OUT} (A)	f _{SW} (kHz)	Temp Range	Features
SQ24390VLQ	QFN1.4×1.8-10	H	2.3~5.5	-VIN	2	1.2	0.2	500	-40°C to 125°C	Negative Charge Pump and Adjustable Regulator

5V Bus Buck Module(Temp Range -40°C to 125°C)

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)
SQ76001RCC	2.5	5.5	1.2	3	Adjustable	±2%	79% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	QFN2.5×2-8	1.15
SQ76002BAEE	2.5	5.5	2	2.4	Adjustable	±1.5%	87% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	MDFN1.9×1.75-6	1.08
SQ76002CAEE	2.5	5.5	2	2.4	Adjustable	±1.5%	87% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	MDFN1.9×1.75-6	1.08
SQ76002DAAE	2.5	6	2	2.4	Adjustable	±1.5%	89% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	MDFN2.5×2-10	1.08
SQ76003D1AAE	2.5	6	3	2.4	Adjustable	±1.5%	85% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	MDFN2.5X2-10	1.08
SQ76003DAAE	2.5	6	3	2.4	Adjustable	±1%	89% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	MDFN2.5×2-10	1.22
SQ76003EAAE	2.5	6	3	2.4	Adjustable	±1%	89% @ 3.3V _{IN} , 1.8V _{OUT}	PFM	MDFN2.5×2-10	1.22
SQ76004BAKE	2.5	6	4	2.4	Adjustable	±1%	86% @ 3.3V _{IN} , 1.8V _{OUT}	FCCM	QFN2.5×2.5-10	1.22
SQ76825DABE	2.7	5.5	6	1.5	Adjustable, Default: 0V	±1%	83% @ 3.3V _{IN} , 1V _{OUT}	I ² C	MQFN3×4-16	1.8
SQ76006B1AIE	2.85	7	6	1.1	Adjustable	±1.5%	88% @ 3.3V _{IN} , 1.8V _{OUT}	PFM&FCC M	MQFN3x3-19	1.5
SQ76020AFE	2.75	5.5	20	3.4	Adjustable, Default: 0V	±1%	79.8% @ 3.3V _{IN} , 0.95V _{OUT}	FCCM	MQFN5×6-24	1.8

12V Bus Buck Module (Temp Range -40°C to 125°C)

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)
SQ76103C1ACE	4.7	18	3	2	Adjustable	±1%	85% @ 12V _{IN} , 3.3V _{OUT}	FCCM	QFN3×2.8-8	1.5
SQ76103D1ACE	4.7	15	3	2	Adjustable	±1%	85% @ 12V _{IN} , 3.3V _{OUT}	PFM	QFN3×2.8-8	1.5
SQ76106BAIE	2.85	16	6@0.6- 3.3V	1.1	Adjustable	±1%	90% @ 12V _{IN} , 3.3V _{OUT}	PFM&FCCM	MQFN3x3-19	1.7
			5@above 3.3V							
SQ76115BADE	2.9	16	15	Adj	Adjustable	±1%	90.7% @ 12V _{IN} , 3.3V _{OUT}	PFM&FCCM	MQFN5×5-32	2.8

Power Block (DrMos + Inductor) (Temp Range -40°C to 125°C)

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (Max) (A)	F _{SW} (MHz)	Output Voltage (V)	Efficiency @ full load	Package	Height (Max)(mm)
SQ75130AQM	5	16	30	Adjustable	Adjustable	86.8% @ 12V _{IN} , 1V _{OUT}	MLGA7×8-48	3.98
SQ75230ASM	3	16	80	Adjustable	Adjustable	87.3% @ 12V _{IN} , 1V _{OUT}	MLGA11×9-72	4

HV Bus Buck Module (Temp Range -40°C to 125°C)

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)
SQ76401AAOE	4.2	36	1	2.1	Adjustable	±1%	TBD	PFM	MQFN2.5×3-10	1.65

Non-isolated Module (Temp Range -40°C to 125°C)

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)
SQ74001AHE	2.65	5.5	1.5	1	3.3	±1.5%	83.6% @ 3.3V _{IN} , 3.3V _{OUT}	Buck/Boost	MQFN2.1×3-13	1.12

Isolated Module (Temp Range -40°C to 125°C)

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)
SQ79002AJE	4.5	14	0.2	1.6	5	-	65% @ 5V _{IN} , 5V _{OUT}	3kV DC Hipot	MQFN4*5.5-14	4.05





Battery

Switching Charger(Temp Range -40°C to 125°C)

Partnumber	Features	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function	Temp Range
SQ64974BQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4×4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, Step 32mV	NVDC Power Path Management, OTG, BC1.2 Compliance, USB Source Detection	-40°C to 150°C
SQ64971VKS	Single Cell Li-Ion/Li-polymer DC/DC Switching Charger	CSP2.2×2.565-30	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	-40°C to 150°C
SQ64971BVKS	Single Cell Li-Ion/Li-polymer DC/DC Switching Charger	CSP2.2×2.565-30	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	-40°C to 150°C
SQ67661QFQ	Multi-Cell Buck-Boost Battery Charger Controller	QFN4*4-32(WB)	3.5-25	8.128	0.8, 1.2	1~4	1.024V-19.2V, step 8mV	NVDC Power Path Management, High Accuracy for Voltage/Current Regulation, Accurate Power/Current Monitor, PROCHOT for CPU Throttling, OTG, Peak Power Mode	-40°C to 150°C

Fast Charge(Temp Range -40°C to 125°C)

Partnumber	Features	Package	V _{IN} (V)	Typical Output Current (A)	F _{SW} (MHz)	ADC	MOSFET Peak Current(A)	Protection	Temp Range
SQ64510UIC	High Efficiency Single Phase 2:1 Switched Capacitor Converter	CSP2.57×3.71-34	4.5~20	2	0.125~1	NO	14.5	OCP, OTP, OVP	-40°C to 125°C

Power Storage and Release

Part Number	Operating Voltage	Package	Storage Voltage	Charge Current Limit	Dumping Current Limit	Features	Operation Temperature	Typical Applications
SQ40201FAP	4.5~18V	SOP-8	Up to 36V	260mA	2.5A	Programmable Storage and Release Voltage Dying Gasp Active Indicator	-40°C to 85°C	NOT, GPON Modems
SQ40001RGQ	2.6~16V	QFN4x4-25	Up to 36V	2.5A	5A	Programmable Storage & Release voltage, Input OVP and Current Limit Protection Storage Capacitance and ESR Detection	-40°C to 105°C	SSD

Low Voltage Multiphase PMIC (Temp Range -40°C to 125°C)

Part Number	Operating Voltage	Numbers of Phase	Output Current	Output Voltage	Package	Features	Operation Temperature	Typical Applications
SQ48300AVCS	2.5~5.5V	4	20A	0.3V~1.85V	WLCSP 2.66x3.89-54	5A per Phase, Single Output 4-Phase total 20A Output Current Capability; Supports Phase Shedding	-40°C to 125°C	Industrial MPU Power
SQ48300BVCS	2.5~5.5V	4	5A/Channel	0.45V~2.0V	WLCSP 2.66x3.89-54	Quad Output 1+1+1+1, 5A Per Phase Output Current Capability	-40°C to 125°C	Industrial MPU Power

High Voltage AC/DC Auxiliary Power Supply (Buck/Flyback) (Temp Range -40°C to 125°C)

Partnumber	V _{VCC} (min) (V)	V _{VCC} (max) (V)	f _{SW} (kHz)	V _{REF} Accuracy	I _{D_MAX} (mA)	Temp Range	Feature/ Special Function	Package
SQ38341FHP	4.5	25.5	60	1.2V±2%	360	-40°C to 125°C	Peak current mode Buck/Flyback switcher integrated 800V power MOS	SSOP10
SQ38343FHP	4.5	25.5	120	1.2V±2%	590	-40°C to 125°C	Peak current mode Buck/Flyback switcher integrated 800V power MOS	SSOP10

AC/DC High Frequency QR Flyback Controller for Industrial Auxiliary Power Supply

Partnumber	Function	Operation Mode	Max Frequency	HV Startup	OCP Protection	OVP Protection	UVP Protection	BO/BI	X-cap Discharge	External OTP Protection	Package
NEW SQ33020FVP	QR SSR Flyback Controller with Valley Lock	QR	500kHz	YES	YES	YES	YES	YES	YES	YES	SSOP10

Isolated DC/DC Auxiliary Power Supply (Temp Range -40°C to 125°C)

Partnumber	V _{IN} (min) (V)	V _{IN} (max) (V)	f _{SW} (MHz)	V _{REF} Accuracy	MOSFET (BV & Ron)	Temp Range	Feature/ Special Function	Package
SQ38852BSXD	10.5	75	1	2.50V±2%	200V/1.4Ω	-40°C to 125°C	Programmable Switching Frequency Input Under voltage and Over voltage Detectors Internal Cycle by Cycle Current Limit VCC OVP P _{OUT_Max} : 6W	DFN 4*4-8
SQ38832AFAP	10.5	75	0.9	2.50V±2%	200V/1.4Ω	-40°C to 125°C	Programmable Switching Frequency Input Under voltage and Over voltage Detectors Internal Cycle by Cycle Current Limit VCC OVP P _{OUT_Max} : 6W	SO8
SQ38865IGD	10.5	75	0.4 or 0.8	1.20V±2%	180V/0.65Ω	-40°C to 125°C	Programmable Switching Frequency (PSR/SSR) Input Under voltage Detector Internal Cycle by Cycle Current Limit VCC OVP, OLP, SCP, OTP P _{OUT_Max} : 20W	DFN 5*6-8
SQ33052QCC	15	75	1	5V±2%	NA	-40°C to 125°C	Integrated 120V High Voltage Startup Circuit Programmable Oscillator with a 1MHz Maximum Frequency Support Voltage Mode Control and Peak Current Mode Control Cycle by Cycle Peak Current Limiting OCP, SCP, OTP	QFN4x4-24

IEEE 802.3 af/at/bt-Compatible PoE PD Interface with DCDC Converter (Temp Range -40°C to 125°C)

Partnumber	V _{IN} (min) (V)	V _{IN} (max) (V)	f _{SW} (KHz)	V _{REF} Accuracy	MOSFET (BV & Ron)	Temp Range	Feature/ Special Function	Package
SQ34815TQQ	10	57	500	1.2V±1.5%	180V/0.65Ω	-40°C to 125°C	Fully Compatible with IEEE 802.3 af Standard Power up to 13W(PoE input) Flexible Topology Design: PSR/SSR Flyback Internal Current Sense and Loop Compensation (PSR) for Simple Peripheral Circuit	QFN4×5-28
SQ33607QYQ	10	57	500	1.2V±1.5%	NA	-40°C to 125°C	Fully Compatible with IEEE 802.3 af/at Standard Power up to 30W(PoE input) Flexible Topology Design: PSR/SSR Flyback Internal Loop Compensation (PSR) for Simple Peripheral Circuit	QFN4×4-20
SQ33608WSQ	15	75	1	5V±2%	NA	-40°C to 125°C	Fully Compatible with IEEE 802.3 af/at/bt Standard Power up to 90W(PoE input) Programmable Oscillator with a 1MHz Maximum Frequency Support Voltage Mode Control and Peak Current Mode Control Cycle by Cycle Peak Current Limiting OCP, SCP, OTP	QFN6×5-44

High Voltage Synchronous Buck Controller (Temp Range-40°C to 125°C)

Partnumber	V _{IN} (min) (V)	V _{IN} (max) (V)	f _{SW} (MHz)	V _{REF} Accuracy	I _Q (mA)	Temp Range	Feature/ Special Function	Package
SQ33068WAQ	6	75	0.1~1	0.8V±1%	/	-40°C to 125°C	±1% Reference Voltage 6V to 75V Input Voltage Range 0.8V to 60V Output Voltage Range Voltage Mode Control with Feedforward Prevent Reverse Charging Protection Cycle-by-Cycle Over Current Protection Thermal Shutdown Protection with Hysteresis	QFN3.5×4.5-20

Auxiliary Power Supply (Boost/Flyback Controller) (Temp Range-40°C to 105°C)

Partnumber	V _{IN} (min) (V)	V _{IN} (max) (V)	f _{SW} (MHz)	V _{REF} Accuracy	Max Duty	Ambient Temp Range	Feature/ Special Function	Package
SQ35702BFAP	10	22	<500KHz	2.5V±2%	96%	-40°Cto 105°C	Peak current mode Boost/flyback Controller	SOP8
SQ35702CFAP	10	22	<250KHz	2.5V±2%	48%	-40°Cto 105°C	Peak current mode Boost/flyback Controller	SOP8
SQ35702EFAP	16	22	<250KHz	2.5V±2%	48%	-40°Cto 105°C	Peak current mode Boost/flyback Controller	SOP8

Motor Driver (Temp Range: -40°C to 85°C)

Part Number	Recommended Operating Voltage		Maximum Drive Current	MOSFET R _{ON} (mΩ) HS + LS	Low-power Sleep Mode	Typical Applications	Package
	Min(V)	Max(V)					
SQ55702DFD	2.5	12	1.8A	<450mΩ	√	Camera/DC Brushed Motor	DFN2x2-8
SQ55703QIQ	2.5	16	1.5A	<480mΩ	√	Printer/Stepper Motor	QFN4x4-16

Gate Driver (Temp Range: -40°C to 140°C)

Part Number	Recommended Operating Voltage		Maximum Driver Current	Fast Propagation Delay Time		Bootstrap Diode Integrated	Typical Application	Package
	Min(V)	Max(V)		Turn On	Turn off			
SQ55664BSXD	8	17	4A	25ns	30ns	No	Telecom/Datacom/Half-bridge and Full-bridge Converters	DFN4x4-8

Light Sensor(Temp Range: -40°C to 85°C)

Part Number	Operating Voltage	Function	Typical Current	Resolution	Typical Applications	Package
SQ81122-H2	2.7~3.6V	Light Sensor with Frequency Output	1mA	2.95kHz/($\mu\text{W}/\text{cm}^2$)	Pulse Oximeter	DIP4646

Current Sense Amplifier (Temp Range: -40°C to 125°C)

Part Number	Description	Supply Voltage (V)	CM Sense Range(V)	DM Sense Range (mV)	I _Q (Typ) (uA)	Gain (V/V)	Gain Error (Max)	Offset (Max) (uV)	Output Mode	Alert	Feature/ Special Function	Package
SQ52101AHT	Current-sense Amplifier	3-5.5	-0.3-26	±90	80	50	±0.5%	±100	Analog	No	High- or low side bidirectional	SOT363
SQ52102AHT	Current-sense Amplifier	3-5.5	-0.3-26	±45	78	100	±0.5%	±50	Analog	No	High- or low side bidirectional	SOT363
SQ52103AHT	Current-sense Amplifier	3-5.5	-0.1-26	±24	78	200	±0.5%	±35	Analog	No	High- or low side bidirectional	SOT363
SQ52104WMS	Current-sense Amplifier	1.8-5.5	1.8-5.5	52	18	100	±0.18%	±45	Analog	No	Small Size, low power, Unidirectional	CSP0.76×0.76-4
SQ52131HMP	High-accuracy Current-sense Amplifier	2.7-5.5	-4-80	±98	1800	50	±0.15%	±22	Analog	No	-4-80V wide VCM range & Enhanced PWM Rejection	TSSOP8
SQ52132AAT	High-speed Current-sense Amplifier	2.7-5.5	-4-80	48	1300	100	±0.2%	±65	Analog	No	-4-80V wide VCM range & 1M High Bandwidth	SOT23-5
SQ52110FBP	Current-sense Comparator	2.7-5.5	0-36	250	135	/	/	-500	CMP	Yes	3 Delay time Programmable Alert Threshold	MSOP10
SQ52110TDD	Current-sense Comparator	2.7-5.5	0-36	250	135	/	/	-500	CMP	Yes	3 Delay time Programmable Alert Threshold	DFN2x2-10
SQ52111CAP	Current-sense Amplifier & Comparator	2.7-5.5	0-36	250	300	20	±0.1%	±125	AMP+CMP	Yes	Programmable Alert Threshold	MSOP8
SQ52112CAP	Current-sense Amplifier & Comparator	2.7-5.5	0-36	100	300	50	±0.15%	±50	AMP+CMP	Yes	Programmable Alert Threshold	MSOP8
SQ52113CAP	Current-sense Amplifier & Comparator	2.7-5.5	0-36	50	300	100	±0.2%	±35	AMP+CMP	Yes	Programmable Alert Threshold	MSOP8
SQ52114CAP	Current-sense Amplifier & Comparator	2.7-5.5	0-36	50	300	100	±0.2%	±35	AMP+CMP	Yes	Programmable Alert Threshold	MSOP8

Power Monitor (Temp Range: -40°C to 125°C)

Part Number	Description	Supply Voltage (V)	CM Sense Range(V)	DM Sense Range (mV)	I _Q (Typ) (uA)	Gain Error (Max)	Offset (Max) (uV)	Output Mode	Alert	Feature/ Special Function	Package
SQ52201FBC	High-accuracy Power Monitor	2.7-5.5	0-36	±80	396	±0.15%	±10	I ² C/SMBus	Yes	16-bit ADC for BUS & Shunt Voltage	MSOP10
SQ52204VSS	High-accuracy Power Monitor	2.7-5.5	0-36	±80	320	±0.45%	±10	I ² C/SMBus	Yes	16-bit ADC for BUS & Shunt Voltage	CSP1.39x1.68-12
SQ52204BVSS	High-accuracy Power Monitor	2.7-5.5	0-36	±80	320	±0.45%	±10	I ² C/SMBus	Yes	16-bit ADC for BUS & Shunt Voltage	CSP1.39x1.68-12
SQ52205FBP	High-accuracy Power Monitor	2.7-5.5	0-36	±80	320	±0.15%	±10	I ² C/SMBus	Yes	16-bit ADC for BUS & Shunt Voltage	MSOP10
SQ52205QDQ	High-accuracy Power Monitor	2.7-5.5	0-36	±80	320	±0.25%	±10	I ² C/SMBus	Yes	16-bit ADC for BUS & Shunt Voltage	QFN3x3-16

Temperature Sensor (Temp Range: -40°C to 125°C)

Part Number	Temperature Sensor Accuracy (Max) (°C)	Supply Voltage (V)	Supply Current (Max) (μA)	Interface	Address	Temperature Resolution (Max) (bits)	Type	Remote Channel	Features	Package
SQ52910ART	3	1.62-3.6	7.5	I ² C	4	12	local	0	ALERT	SOT563
SQ52911ART	1	1.62-3.6	7.5	I ² C	4	12	local	0	ALERT	SOT563

DAC (Temp Range: -40°C to 125°C)

Part Number	Description	VDD(V)	Resolution (bit)	Channel	INL(Max) (LSB)	Offset Error (Max) (mV)	Gain Error (Max) (%)	with internal ref	Power on Reset to code	Package
SQ82948GGF	48 Channel 12 Bit DAC	4.5-5.5, ±11V	12	48	±3	±25	±0.5	Yes (2.5V)	/	TQFP10×10-64E
SQ82968VZS	16 Bit 8 Channel DAC	2.7-5.5	16	8	±13.8	±12.5	±0.15	Yes (1.25V)	Zero	CSP2.605×2.605-16
SQ82968CVZS	16 Bit 8 Channel DAC	2.7-5.5	16	8	±13.8	±12.5	±0.15	Yes (2.5V)	Zero	CSP2.605×2.605-16
SQ82958QIQ	16 Bit 8 Channel DAC	2.7-5.5	16	8	±3.5	±7.9	±0.29	Yes (1.25V)	Zero	QFN4×4-16
SQ82958BQIQ	16 Bit 8 Channel DAC	2.7-5.5	16	8	±3.5	±7.9	±0.29	Yes (1.25V)	Midscale	QFN4×4-16
SQ82928VZS	12 Bit 8 Channel DAC	2.7-5.5	12	8	±1.0	±13.9	±0.29	Yes (1.25V)	Zero	CSP2.605×2.605-16
SQ82918QIQ	12 Bit 8 Channel DAC	2.7-5.5	12	8	±1.0	±7.9	±0.28	Yes (1.25V)	Zero	QFN4×4-16

Shunt Voltage Reference (Temp Range: -40°C to 125°C)

Part Number	Output Voltage (V)	Initial Accuracy (max)(%)	Operation Current (max)(mA)	Temp Coeff (max)(ppm/°C)	Wideband Noise (μ Vrms)	Package
SQ82550AOT	5	0.1	15	47	80	SOT-23
SQ82550BAOT	4.096	0.1	15	46	65	SOT-23
SQ82550CAOT	3.3	0.1	15	39	51	SOT-23
SQ82550DAOT	2.5	0.1	15	40	38	SOT-23

Clock Generator (Temp Range: -40°C to 85°C)

Part Number	Description	Outputs	Output Type	Output Freq Range (MHz)	Input Freq (MHz)	Inputs	Input Type	Output Banks	Core Voltage (V)	Integrated RMS Jitter (12KHz to 20MHz) (fs)	Package
SQ82201QHQ	Clock Generator	3 differential + 7 Single End	LVPECL/LVCMOS	25/33.33/100/125/156.25	25	2	Crystal/LVCMOS	5	3.3	<150	QFN6x6-40

Clock Buffer (Temp Range: -40°C to 85°C)

Part Number	Description	Outputs	Output Type	Output Freq Range (MHz)	Input Freq (MHz)	Inputs	Input Type	Core Voltage (V)	Additional Phase Jitter Typ RMS (fs)	Package
NEW SQ82100EDQ	PCIe 1-6 Clock Buffer	20 differential	LP-HCSL	1~400	1~400	1	HCSL	3.3	PCIe Gen5 <16fs RMS DB2000QL <20fs RMS	AQFN6x6-80

Digital Power Controller (Temp Range: -40°C to 125°C)

Part Number	Core	Supply Range(V)	Frequency (MHz)	Flash(kB)	RAM(kB)	Communication	Feature	Package
SQ51103QHQ	Cortex-M4F	3-3.6	62.5	64+64	16	I2C X1, UART X1	digital power controller, integrated AFE, Digital PID, HRPWM	QFN6x6-40

TVS Protection (Temp Range: -40°C to 125°C)

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
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
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
SYT01N03DXC	3.3V Low Speed Interface	1	Bi	3.3	27	15	140	DFN0.6×0.3-2
SYT01A05DXC	5V High Speed Interface, USB-C	1	Bi	5	0.15	4	55	DFN0.6×0.3-2
SYT01N05ANC	Audio/Key	1	Bi	5	30	12	130	SOD523
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
SYT11N05DWD	Audio/Key	1	Bi	5	23	10	90	DFN1.0×0.6-2
SYT11N05DXD	Audio/Key	1	Bi	5	23	10	90	DFN0.6×0.3-2
SYT21N05DWD	Audio/Key	1	Bi	5	45	20	180	DFN1.0×0.6-2
SYT41N05DWD	Audio/Key	1	Bi	5	90	35	350	DFN1.0×0.6-2
SYT11M05DWD	Audio/Key	1	Bi	5	14	9	75	DFN1.0×0.6-2
SYT11M05DXD	Audio/Key	1	Bi	5	14	9	75	DFN0.6×0.3-2
SYT11M03DWD	Audio/Key	1	Bi	3.3	17	10	65	DFN1.0×0.6-2
SYT11M03DXD	Audio/Key	1	Bi	3.3	17	10	65	DFN0.6×0.3-2
SYT16S03DVC	HDMI/USB	4	Bi	3.3	0.25	3	50	DFN2.5×1.0-10
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
SYT26S05DVC	HDMI/USB	4	Uni	5	0.5	6	42	DFN2.5×1.0-10

TVS Protection (Temp Range: -40°C to 125°C)

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _i (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT46S03DVD	HDMI/USB	4	Bi	3.3	0.4	7	56	DFN2.5×1.0-10
SYT06U05DVC	HDMI1.4	4	Uni	5	0.6	3	36	DFN2.5×1.0-10
SYT36A03DVD	HDMI2.1	4	Uni	3.3	0.25	7	70	DFN2.5×1.0-10
SYT26AB3DVD	HDMI2.1	4	Bi	3.3	0.18	4.5	30	DFN2.5×1.0-10
SYT13L03AOC	high-speed & general IO ESD protection	2	Bi	3.6	1	12	120	SOT-23
SYT36S03DVC	Low Cap ESD Array for High-speed Interface	4	Uni	3.3	0.6	12	60	DFN2.5×1.0-10
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
SYT01N24DWC	USB Vbus, Smart Phone	1	Bi	24	12	4	180	DFN1.0×0.6-2
SYT01N12DWC	USB Vbus, Smart Phone	1	Bi	12	25	7.5	210	DFN1.0×0.6-2
SYT01N15DWD	USB Vbus, Smart Phone	1	Bi	15	18	6	180	DFN1.0×0.6-2
SYT05S05ABC	USB/VGA/HDMI	4	Uni	5	1.2	8	100	SOT23-6
SYT06U05ABC	USB/VGA/HDMI	4	Uni	5	0.6	3	36	SOT23-6
SYT04L05AWC	USB2.0	2	Uni	5	1.2	7.5	100	SOT-143
SYT13L05AOC	USB2.0	2	Bi	5	3.5	2	24	SOT-23
SYT43L05SMD	USB2.0	2	Bi	5	2	10	100	DFN1.0×0.6-3
SYT02U05DWC	USB2.0	1	Uni	5	0.5	4	50	DFN1.0×0.6-2
SYT13U05AOC	USB2.0	2	Uni	5	0.6	4	50	SOT-23
SYT13S03SMD	USB2.0	2	Uni	3.3	0.42	7	40	DFN1.0×0.6-3

TVS Protection (Temp Range: -40°C to 125°C)

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT03S05SHC	USB2.0	2	Uni	5	0.6	4	50	DFN1.2×1.0-6
SYT03S05SIC	USB2.0	2	Uni	5	0.6	4	50	DFN1.6×1.0-6
SYT07S05SBC	USB3.x	6	Uni	5	0.3	3	45	DFN4.1×2.0-10
SYT18A03SFC	USB3.x	8	Uni	3.3	0.42	6	30	DFN3.8×1.0-9
SYT21A05DXC	USB3.x,USB Type-C	1	Bi	5	0.2	9	55	DFN0.6×0.3-2
SYT26A03DVC	USB3.x,USB Type-C	4	Uni	3.3	0.38	10	55	DFN2.5×1.0-10
SYT26A05DVD	USB3.x,USB Type-C	4	Uni	5	0.38	10	55	DFN2.5×1.0-10
SYT31S05DWD	USB3.x,USB2.0	1	Bi	5	0.45	15	100	DFN1.0×0.6-2
SYT31A01DXD	USB4,TB4,USB TYPE-C	1	Bi	1.5	0.17	6	24	DFN0.6x0.3-2
SYT21S24DXC	USB-C/RF Antenna	2	Bi	24.5	0.2	9	50	DFN0.6×0.3-2
SYT06L05ABC	VGA/RJ45	4	Uni	5	3.5	20	350	SOT23-6

EMI Filter (Temp Range: -40°C to 125°C)

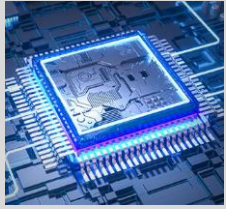
Part Number	Application	Channels	Direction	V _{RWM} (V)	fc(GHz)	IL	Atten	Package
SYE40C02SSC	MIPI/HDMI	4	Uni	5	4	-0.33dB@10MHz	-35dB@1.5GHz	DFN2.5×2.0-10
SYE1104TXD	LCD/Camera	4	Uni	5	0.25	-6dB@10MHz	-20dB@0.8GHz	DFN1.6×1.0-8
SYE1106TLD	LCD/Camera	6	Uni	5	0.25	-6dB@10MHz	-20dB@0.8GHz	DFN2.5×1.35-12

Surge Protection (Temp Range: -40°C to 125°C)

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _i (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS02H12AMC	DC IN	1	Uni	12	150	20	500	SOD323
SYS01V05AMC	DC IN	1	Bi	5	200	24	350	SOD323
SYS02V05AMC	DC IN	1	Uni	5	350	40	500	SOD323
SYS03H12AOC	DC IN	2	Uni	12	140	20	500	SOT-23
SYS11U24AMC	RJ45	1	Bi	24	0.6	6	550	SOD323
SYS11U15AMC	RJ45	1	Bi	15	0.8	10	550	SOD323
SYS11U12AMC	RJ45	1	Bi	12	0.6	12	550	SOD323
SYS11U05AMC	RJ45	1	Bi	5	0.6	20	550	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
SYS14L02DHC	RJ45	4	Uni	2.5	3.5	40	1000	DFN3.0×2.0-10
SYS42L02FAC	RJ45	2	Bi	2.8	1.2	50	1000	SOP-8
SYS03N24AOC	RS232	2	Uni	24	120	8	300	SOT-23
SYS04M12THD	RS485	2	Uni	12	6	100	3000	DFN2.0x2.0-5
SYS02V12AMC	VBUS	1	Uni	12	400	42	1000	SOD323
SYS22X24TPD	VBUS	1	Uni	20	900	150	5100	DFN2.0×2.0-3
SYS12V20SLC	VBUS	1	Uni	20	210	25	850	DFN1.6×1.0-2
SYS12V12SLC	VBUS	1	Uni	12.5	400	52	1100	DFN1.6×1.0-2
SYS12V28SLD	VBUS	1	Uni	28	140	22	1000	DFN1.6×1.0-2
SYS12V36SLD	VBUS	1	Uni	36	95	17	900	DFN1.6x1.0-2

Surge Protection (Temp Range: -40°C to 125°C)

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS12V48SLD	VBUS	1	Uni	48	60	12	750	DFN1.6×1.0-2
SYS12V05AMC	Vbus/Vbat	1	Uni	5.5	1100	100	1300	SOD-323
SYS12V05SLC	Vbus/Vbat	1	Uni	5	1100	100	1300	DFN1.6×1.0-2
SYS22V05SLC	Vbus/Vbat	1	Uni	5	2100	200	2100	DFN1.6×1.0-2
SYS22V04SLC	Vbus/Vbat	1	Uni	4.5	1100	240	3100	DFN1.6×1.0-2
SYS32V05SLD	Vbus/Vbat	1	Uni	5	600	100	800	DFN1.6×1.0-2
SYS02H24DWD	Vbus/Vbat	1	Uni	24	85	9	320	DFN1.0×0.6-2
SYS02H20DWC	Vbus/Vbat	1	Uni	20	85	12	450	DFN1.0×0.6-2
SYT02H05DWC	Vbus/Vbat	1	Uni	5	160	22	220	DFN1.0×0.6-2



Metering

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	2	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
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
78M6610+PSD	None	EMP	3.3	1V, 1I, 1T	8	1.5	I2C, SPI, UART	TQFN/24, TSSOP/16	Single Phase
78M6618	80515	CE	3.3	10 (Configurable)	128	4	SPI, UART	SQFN/68	Single Phase, Polyphase Multi-Branch
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
SY7T501FAC	None	None	3.3	2	None	None	UART	SOP8	Single Phase, Hard-coded IC
SY7T502FBC	None	None	3.3	2	None	None	UART	MSOP10	Single Phase, Hard-coded IC
SY7T609+R1	None	EMP	3.3	1V, 1I	8	1.5	SPI, UART	TSSOP/14	Single Phase
SY7T609+S1	None	EMP	3.3	1V, 1I	8	1.5	SPI, UART	TSSOP/14	Single Phase
SY7T609ET+R1	None	EMP	3.3	1V, 1I	8	1.5	SPI, UART	TSSOP/14	Single Phase
SY7T609EB+R1	None	EMP	3.3	1V, 1I	8	1.5	SPI, UART	TSSOP/14	Single Phase
SY7T610E+PSD/CK6T	None	EMP	3.3	1V, 1I	8	1.5	I2C, SPI, UART	TSSOP/16	Single Phase
NEW SY7T610+OCPU/A0	None	EMP	3.3	1V, 1I	8	1.5	UART/SPI	TSSOP/16	Single Phase
SY7T611+U2	None	EMP	3.3	1V, 2I	8	1.5	UART/SPI	TQFN/24	Single Phase

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
SY7T611+I2	None	EMP	3.3	1V, 2I	8	1.5	I2C/SPI	TQFN/24	Single Phase
SY7T612+U3	None	EMP	3.3	1V, 3I	8	1.5	UART/SPI	TQFN/32	Single Phase
SY7T612+I3	None	EMP	3.3	1V, 3I	8	1.5	I2C/SPI	TQFN/32	Single Phase
SY7T612+U4	None	EMP	3.3	1V, 4I	8	1.5	UART/SPI	TQFN/32	Single Phase
SY7T612+I4	None	EMP	3.3	1V, 4I	8	1.5	I2C/SPI	TQFN/32	Single Phase
SY7T612E+PPM/D05T	None	EMP	3.3	1V, 4I	8	1.5	I2C,SPI, UART	TQFN/32	Single Phase

* 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
71M6103	3P			Differential	1I	-	No	No	No	No	No	SO-8
71M6201	1P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6203	3P	-	-	Differential	1I	-	No	No	No	No	No	SO-8
71M6601	1P	-	-	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


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
MAX71315S	1P	256	48	Differential	2D + 2	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
MAX71334C	3P	128	21	Differential	3D/1SE + 3SE	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	52	4	Yes	LQFP-100
MAX71335C	3P	256	21	Differential	3D/1SE + 3SE	20	Yes	160 (40x4), 228 (6x38), 288 (8x36)	52	4	Yes	LQFP-100
MAX71335S	3P	256	48	Differential	4D + 3	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 /1S+ 3	20	Yes	-	38	2	Yes	QFN-68
SY7T166G	3P	128	21	Differential	3D/1S + 3	20	Yes	-	38	2	Yes	QFN-68
SY7T166GH	3P	256	21	Differential	3D/1S + 3	20	Yes	-	38	2	Yes	QFN-68
SY7T108E	1P	32	8	Differential	2D +1SE	10	Yes	160 (40x4), 228 (38x6), 288 (36x8)	45	3	Yes	LQFP-64
SY7T108F	1P	64	8	Differential	2D +1SE	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
SY7M213H	3P	256	24+4	Differential	3D/1SE+3SE	10	Yes	384(64x6), 496 (62x8)	73	6	Yes	LQFP-100
SY7T213H	3P	256	24+4	Differential	3D/1SE+3SE	10	Yes	384(64x6), 496 (62x8)	73	6	Yes	LQFP-100

* 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.



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