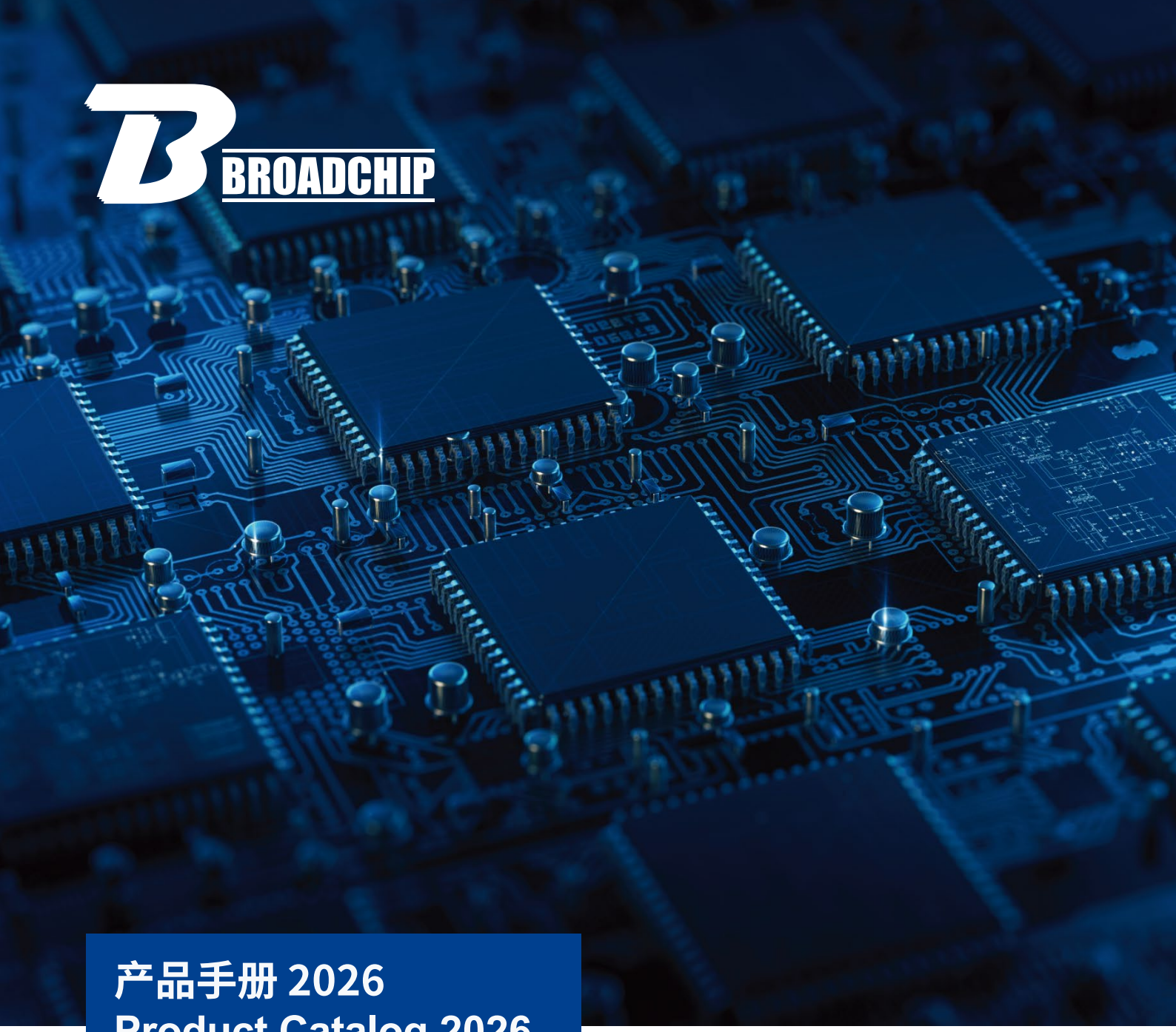
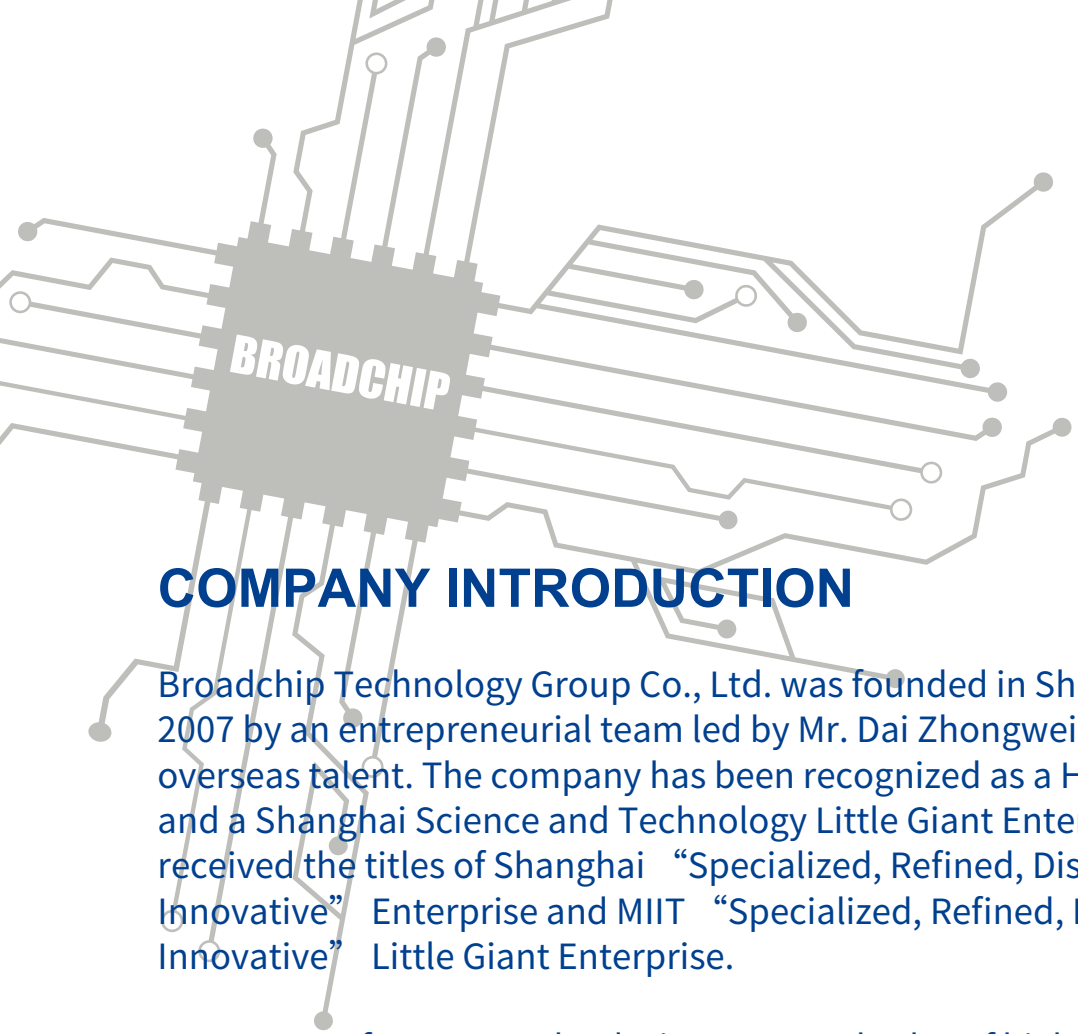


BROADCHIP

产品手册 2026
Product Catalog 2026

广芯电子技术(上海)股份有限公司
Broadchip Technology Group Co., Ltd.



COMPANY INTRODUCTION

Broadchip Technology Group Co., Ltd. was founded in Shanghai at the end of 2007 by an entrepreneurial team led by Mr. Dai Zhongwei, a high-level overseas talent. The company has been recognized as a High-Tech Enterprise and a Shanghai Science and Technology Little Giant Enterprise, and has received the titles of Shanghai "Specialized, Refined, Distinctive and Innovative" Enterprise and MIIT "Specialized, Refined, Distinctive and Innovative" Little Giant Enterprise.

BROADCHIP focuses on the design, R&D and sales of high-performance analog and mixed-signal integrated circuit chip products. Its products are widely used in mobile phones, tablets, wearable devices, security, Netcom, smart home, home appliances and other general consumer electronic products and communications, instrumentation, industrial control and other fields.

Since its establishment, the company has successfully developed more than ten series and hundreds of models. With its technical advantages, innovative functions, excellent cost performance, and the company's good services, BROADCHIP has won the unanimous recognition and trust of many brand customers.

BROADCHIP has consistently emphasized technological innovation, product quality control, and responsiveness to customer needs, and all of its self-developed products have independent intellectual property rights. With more than ten years of accumulated product R&D experience and core technological advantages in the integrated circuit chip field, Broadchip has been providing customers with stable, reliable, and highly cost-effective innovative products, while also offering high-quality technical services and support. Broadchip is committed to becoming a leading enterprise in China's analog integrated circuit chip industry.

Mission:

To provide customers with the highest quality analog

Vision:

China's leading enterprise in analog integrated circuit chip

Corporate values:

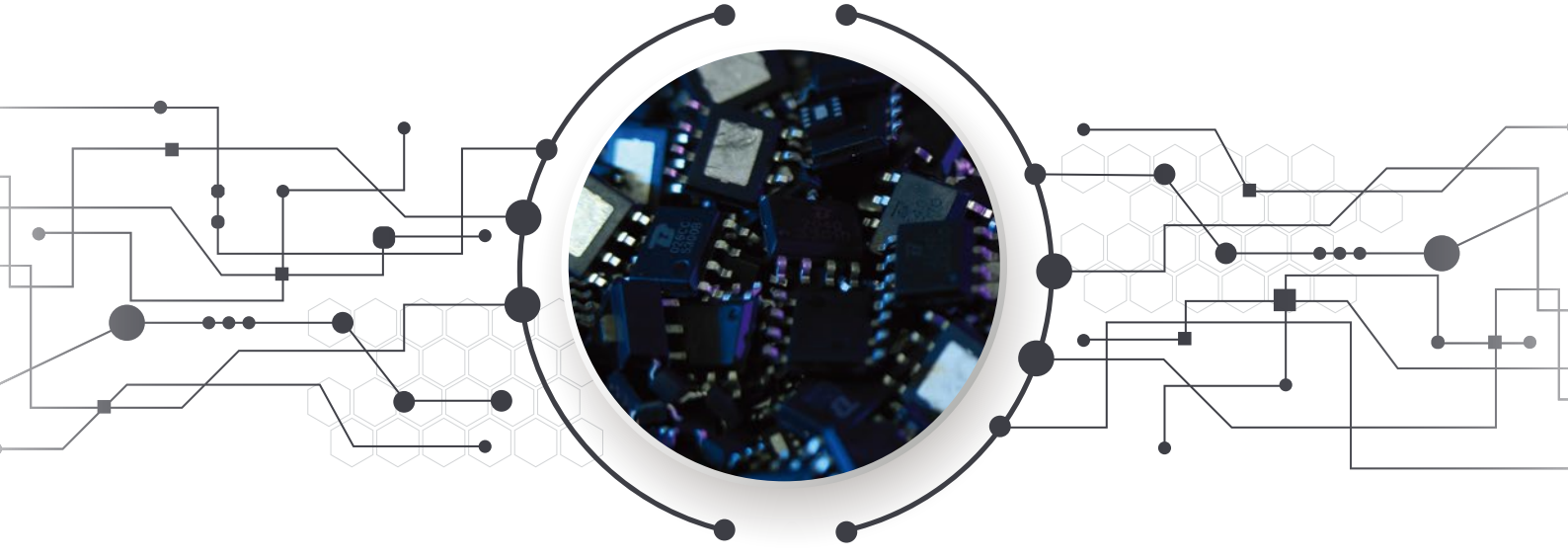
Customer First: Satisfaction and Recognition.

Employee Second: Pride and Happiness.

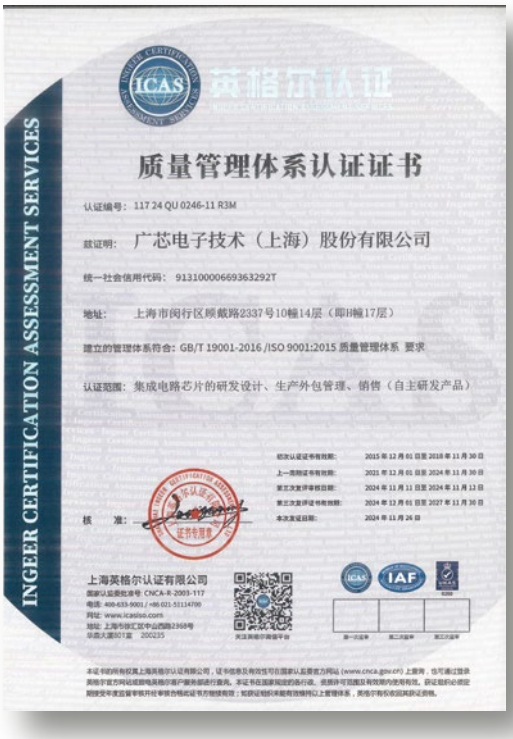
Shareholder Third: Return on investment.

Corporate Code of Conduct:

Do things in a down-to-earth manner and be a real



CERTIFICATIONS
资质证书


质量管理体系认证证书

认证编号：117 24 QU 0246-11 R3M

兹证明：广芯电子技术（上海）股份有限公司

统一社会信用代码：91310000669363292T

地址：上海市闵行区顾戴路2337号10幢14层（即H幢17层）

建立的管理体系符合：GB/T 19001-2016 /ISO 9001:2015 质量管理体系 要求

认证范围：集成电路芯片的研发设计、生产外包管理、销售（自主研发产品）

核 准：

初次认证证书有效期：2015年12月01日至2018年11月30日

上一周期证书有效期：2021年12月01日至2024年11月30日

第三次复评审核日期：2024年11月11日至2024年11月12日

第三次复评证书有效期：2024年12月01日至2027年11月30日

本次发证日期：2024年11月26日

上海英格尔认证有限公司

国家认监委批准号：CNCA-R-2003-117

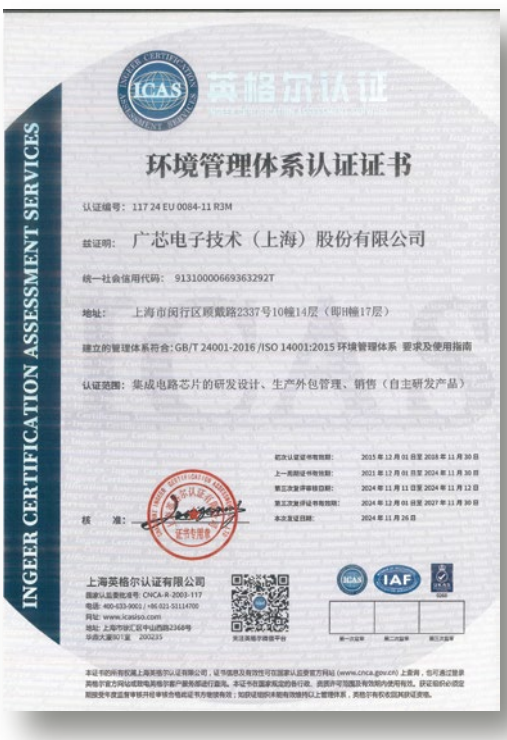
电话：400-633-9001 / +86-021-51114700

网址：www.icasiso.com

地址：上海市徐汇区中山西路2368号

华鼎大厦901室 200235

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环境管理体系认证证书

认证编号：117 24 EU 0084-11 R3M

兹证明：广芯电子技术（上海）股份有限公司

统一社会信用代码：91310000669363292T

地址：上海市闵行区顾戴路2337号10幢14层（即H幢17层）

建立的管理体系符合：GB/T 24001-2016 /ISO 14001:2015 环境管理体系 要求及使用指南

认证范围：集成电路芯片的研发设计、生产外包管理、销售（自主研发产品）

核 准：

初次认证证书有效期：2015年12月01日至2018年11月30日

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本次发证日期：2024年11月26日

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国家认监委批准号：CNCA-R-2003-117

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集成电路设计企业认定证书

编号：工信部电子认0323-2009S

经审核，广芯电子技术（上海）有限公司 符合《鼓励软件产业和集成电路产业发展的若干政策》的有关规定，被认定为集成电路设计企业，特发此证。

年审记录：

发证机关：

2009年 9月 2日


高新技术企业

证书

企业名称：广芯电子技术（上海）股份有限公司 证书编号：GR202531007591

发证时间：2025 年 12 月 25 日 有 效 期：三年

批准机关：

上海市科学技术委员会 上海市财政局 国家税务总局上海市税务局


专精特新"小巨人"企业

广芯电子技术（上海）股份有限公司

工业和信息化部

有效期：2025年7月1日至2028年6月30日


专精特新 中小企业

广芯电子技术（上海）股份有限公司

上海市经济和信息化委员会

有效期：2025年6月-2028年5月

ABOUT BROADCHIP
认识广芯

2007
- In December 2007, Broadchip Technology Group Co., Ltd. was established.

- Certified as an integrated circuit design enterprise.
- The "Technological Innovation Fund for Small and Medium-Sized Enterprises in Science and Technology" project was approved by the state and Shanghai, and passed the acceptance.

- The dual SIM card control chip (BCT4302) project was identified as a Shanghai high-tech achievement transformation project.

- Passed ISO9001:2008 quality management system certification.
- The white light LED driver chip BCT3220/BCT3221/BCT3222 project was recognized as a Shanghai high-tech achievement transformation project.

- The 2011 Integrated Circuit Design Special Project of Shanghai "Science and Technology Innovation Action Plan" was approved and successfully passed the acceptance.

2016

2017
- Passed ISO14001:2004 Environmental Management System Certification.

2019
- Passed the review of high-tech enterprise certification.

- The "Technology Innovation Fund for Small and Medium-Sized Enterprises in Science and Technology" project was approved by Shanghai and successfully passed the acceptance.

2020
- The re-evaluation passed the double certification of ISO9001:2008 quality management system and ISO14001:2004 environmental management system.

2021
- For the third time, it was recognized as a high-tech enterprise.

- The company was successfully listed on the National Equities Exchange and Quotations System. The stock abbreviation: Broadchip, stock code: 871366.

2022

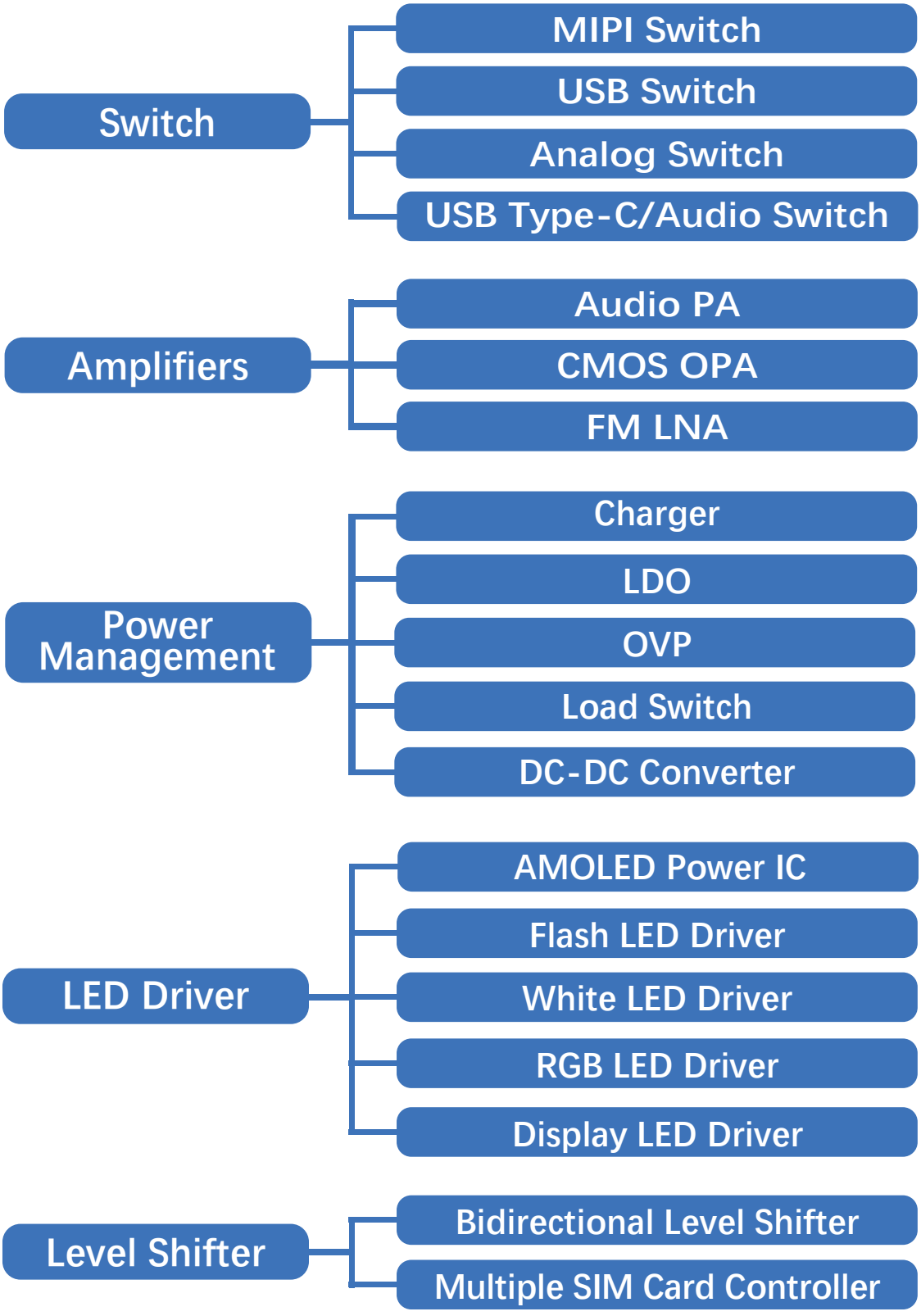
- Passed ISO9001:2015 quality management system and ISO14001:2015 environmental management system.

- MIPI switch BCT646 won the best amplifier/data converter of the year in the "2019 China IC Leadership Summit and China IC Design Achievement Award Ceremony" held by ASPENCORE.

2023

2025
- More than 50 authorizations for inventions have been obtained, utility models and layout designs of integrated circuits.
- The total number of chips delivered exceeds 5 billion.

Broadchip Product Line
产品线





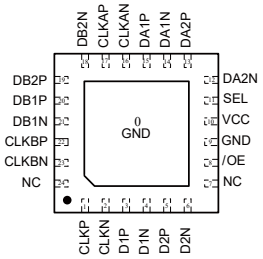
- Switch
  - MIPI Switch
  - USB Switch
  - Analog Switch
  - USB Type-C/ Audio Switch

MIPI Switch

PART No.	Description	V_{IN} (V)	Channels	3dB Bandwidth (Gbps/L)	R_{ON} (Ω)	C_{ON} (pF)	Package	Cross Reference
*BCT622A	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 2-Data Lane Switch	1.65-4.5	2DATA 1CLK	2.5	6	5.2	QFN3x3-24L	
* BCT645	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 4-Data Lane Switch	1.65-4.5	4DATA 1CLK	2.5	6.5	1.5	QFN4x4-38L	
BCT642A	2:1 MIPI D-PHY (2.5Gbps) 2-Data Lane Switch	1.65-4.5	2DATA 1CLK	2.5	6	5	QFN3.4x2.5-24L	FSA642
BCT644C	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 4-Data Lane Switch	1.65-4.5	4DATA 1CLK	2.5	6	5	FO-36L	FSA644
BCT646C	2:1 MIPI D-PHY,C-PHY (4.5Gbps) 4-Data Lane Switch	1.5-5.0	4DATA 1CLK	4.5	6.5	1.5	FO-36L	FSA646 TS5MP646 PI3WVR646
BCT660	2:1 MIPI C-PHY (5.7Gbps) 1-Data Lane Switch	1.5-5.0	1DATA	5.7	5.4	0.8	QFN2.8x2.0-18L	FSA660
BCT647	2:1 MIPI D-PHY,C-PHY (4.5Gbps) 4-Data Lane Switch	1.5-5.0	4DATA 1CLK	4.5	6.5	1.5	QFN4x4-38L	
* BCT613	3:1 MIPI D-PHY (3.0Gbps) 2-Data Lane Switch	1.5-5.0	2DATA 1CLK	3	7	2	QFN4x4-32L	

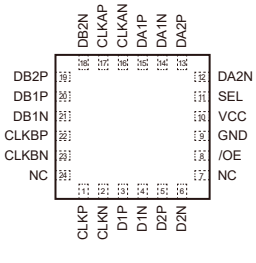
* Please Contact Our Sales Office For More Details

QFN3x3-24L



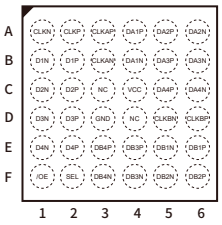
BCT622A

QFN3.4x2.5-24L



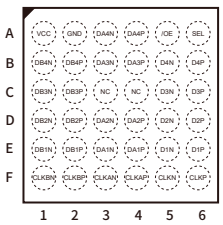
BCT642A

FO-36L



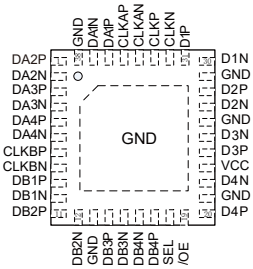
BCT644C

FO-36L



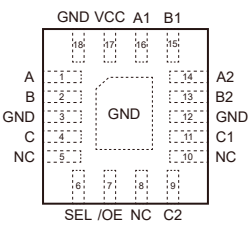
BCT646C

QFN4x4-38L



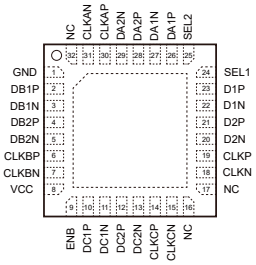
BCT645/BCT647

QFN2.8x2.0-18L



BCT660

QFN4x4-32L



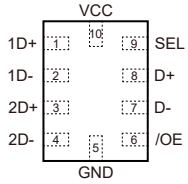
BCT613

USB Switch

PART No.	Description	Configuration	Vcc (V)	Ron (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4221A	High-Speed DPDT Analog Switch	DPDT(X1)	2.3-5.5	2	-45	1800	QFN1.8x1.4-10L QFN2.0x1.5-10L	TS3USB221 NX3DV221
BCT4222A	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-30	700	WQFN1.8x1.4-10L	TS3USB30E FSUSB30 NLAS7222 PI3USB10LP-A
BCT4222C	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-30	700	MSOP10	TS3USB30E FUSB30MUX
BCT4227	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-54	720	MSOP10 QFN1.8x1.4-10L	FSUSB42UMX
*BCT4000	High-Speed DPDT Analog Switch With OVP	DPDT(X1)	2.3-5.5	5.5	-90	1500	QFN2x2-18L QFN1.8x1.4-10L QFN2.0x1.5-10L	PI3USB4000A DIO5000
BCT4340	USB3.2 Super Speed 10 Gbps Switch	QPDT(X1)	1.5-5.0	5.4	-44	10000	QFN2.8x2.0-18L	FUSB340
BCT4350	USB3.2 Super Speed 10 Gbps Switch	QPDT(X1)	1.5-5.0	5.4	-44	10000	QFN2x2-18L TQFN4.5x2.5-20L	CBTL02043A PI3USB302 PI3PCIE3212
BCT4224	USB2.0 High-Speed Switch	DP4T	2.3-5.5	3	-43	1600	QFN2.6x1.8-16L	

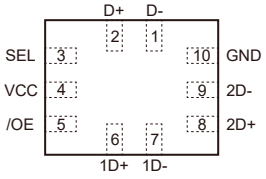
* Please Contact Our Sales Office For More Details

QFN2.0x1.5-10L



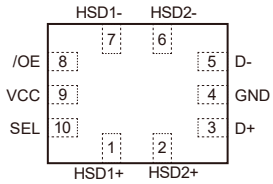
BCT4221A/BCT4000

QFN1.8x1.4-10L



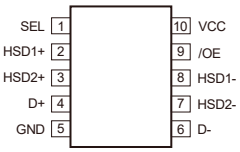
BCT4221A/BCT4000

WQFN1.8x1.4-10L



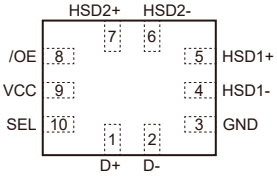
BCT4222A

MSOP10



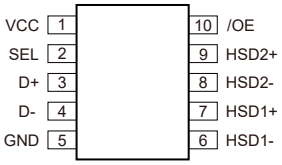
BCT4222C

QFN1.8x1.4-10L



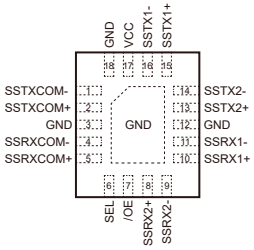
BCT4227/BCT4000

MSOP10



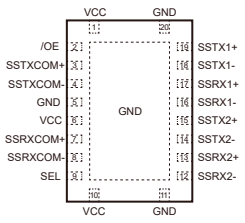
BCT4227

QFN2.8x2.0-18L



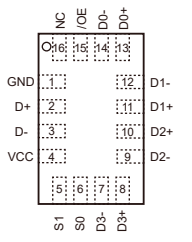
BCT4340

TQFN4.5x2.5-20L



BCT4350

QFN2.6x1.8-16L

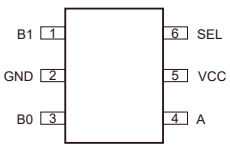


BCT4224

Analog Switch

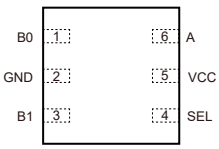
PART No.	Description	Configuration	V_{CC} (V)	R_{ON} (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4157	Low-Voltage, Analog Switch	SPDT(X1)	1.65-5.5	2.8	-54	300	SC70-6L SOT23-6 DFN1x1-6L TDFN1.1x0.9-6L	SN74LVC1G3157 TS5A3157/FSA3157 SGM3157/RS2057 BL1551/DIO3157
BCT4223	Low-Voltage, Analog Switch	SPDT(X2)	1.65-5.0	1.2	-103	100	QFN1.8x1.4-10L	TS3A5223 FSA2259UMX NLAS5223/PI3A223 SGM5223/SGM3718
BCT4684	Low-Voltage, Analog Switch	SPDT(X2)	1.8-5.5	0.4	-100	65	FO-10L	
BCT4699	Ultra Low ON-Resistance Low-Voltage, Analog Switch	DPDT(X2)	1.8-5.0	0.5	-86	100	TQFN3x3-16L UTQFN2.6x1.8-16L	TS3A44159 NLAS3699/PI3A412 SGM3699
BCT4899	Low-Voltage, Analog Switch	DPDT(X2)	1.8-5.5	5	-60	500	TQFN3x3-16L QFN2.5x2.5-16L UTQFN2.6x1.8-16L	FSA2466/MAX4699 NLAS3899B/PI3A3899 SGM44599
BCT4330	Low-Voltage, Analog Switch	QPDT(X1)	1.8-5.5	5	-60	500	SOP16 SSOP16 TSSOP16 QFN3x3-16L QFN3x3-20L	ADG774/774A G3204 FSAL200 FSAV330/430 SN74XX3257/STMAV340 SGM5018/330A

SC70-6L
SOT23-6



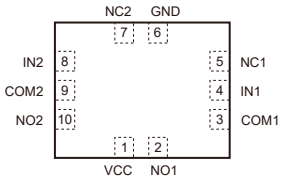
BCT4157

DFN1x1-6L
TDFN1.1x0.9-6L



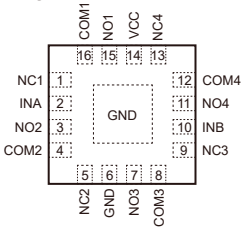
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QFN1.8x1.4-10L



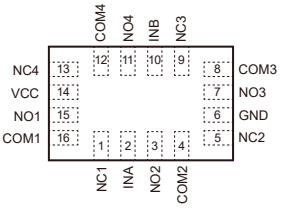
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TQFN3x3-16L
QFN2.5x2.5-16L



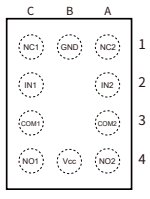
BCT4699/BCT4899

QFN2.6x1.8-16L
UTQFN2.6x1.8-16L



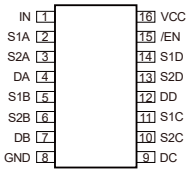
BCT4699/BCT4899

FO-10L



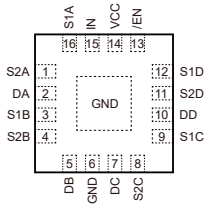
BCT4684

SOP16
SSOP16/TSSOP16



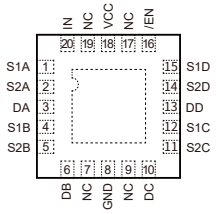
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QFN3x3-16L



BCT4330

QFN3X3-20L

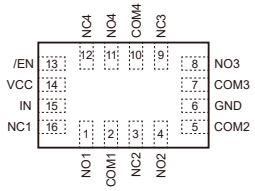


BCT4330

Analog Switch

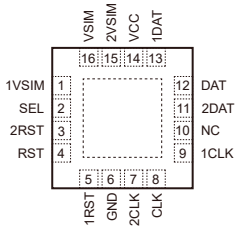
PART No.	Description	Configuration	V_{CC} (V)	R_{ON} (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT44603	Low-Voltage, Analog Switch	QSPDT	1.8-5.5	5	-60	500	QFN2.6x1.8-16L	FSA2457 SGM44603
BCT4567A	Low-Power, Dual SIM Card Analog Switch	QPDT(X1)	1.65-5.0	0.3	-76	260	QFN2x2-18L TQFN3x3-16L UTQFN2.6x1.8-16L	FSA2567
BCT4717A	Dual-SPDT Analog Switch	SPDT(X2)	1.8-5.5	4	-99	300	FO-10L QFN1.8x1.4-10L	SGM4717
BCT48751	Low-Voltage, Analog Switch	SP8T(X1)	2.5-5.5	48		300	SOP16 SSOP16 TSSOP16 QFN3x3-16L	SN74HC4851 TMUX1308 SGM48751
BCT48752	Low-Voltage, Analog Switch	DPQT(X1)	2.5-5.5	48		300	SOP16 SSOP16 TSSOP16 QFN3x3-16L	SGM48752 SN74HC4052

QFN2.6x1.8-16L



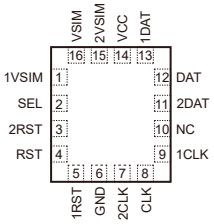
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TQFN3x3-16L



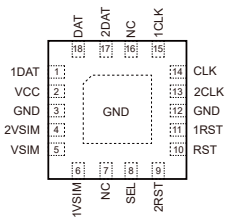
BCT4567A

QFN2.6x1.8-16L



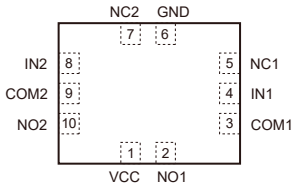
BCT4567A

QFN2X2-18L



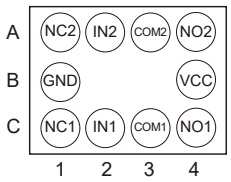
BCT4567A

QFN1.8x1.4-10L



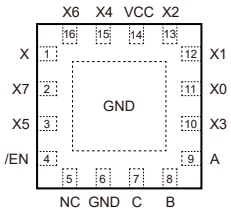
BCT4717A

FO-10L



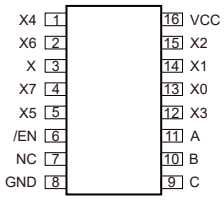
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QFN3x3-16L



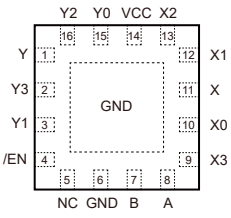
BCT48751

SOP16
SSOP16/TSSOP16



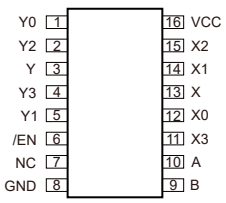
BCT48751

QFN3x3-16L



BCT48752

SOP16
SSOP16/TSSOP16

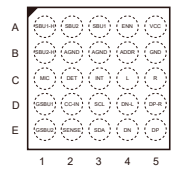


BCT48752

USB Type-C/Audio Switch

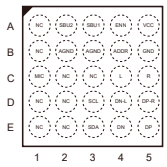
PART No.	Description	V_{CC} (V)	Audio-R_{ON} (Ω)	USB-R_{ON} (Ω)	Analog Signal Range (V)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4480	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	WLCSP-25L	FSA4480
BCT4480C	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	QFN4x4-32L	
BCT4481	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	FO-25L	
BCT4481H	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	QFN3x3-20L	
BCT4481C	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	QFN3x3-20L	
BCT4482	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	WLCSP-25L	
BCT4888	USB Type-C USB3.2/2.0 Analog Audio Switch with Audio Ground Detection	2.7-5.5	1.0	3.0	0 to 20	10GHz/ 950MHz	QFN9.0x3.5-42L	
BCT4321N	High-Speed and Audio Switches with Negative Signal Capability(-2V)	2.7-5.0	2.5	8.5	VCC-6.5 to VCC-2	720	QFN1.8x1.4-10L	

WLCSP-25L



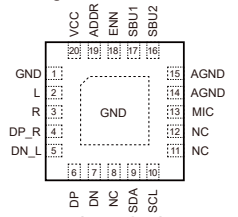
BCT4480/BCT4482

FO-25L



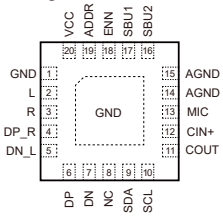
BCT4481

QFN3X3-20L



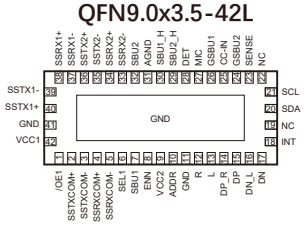
BCT4481C

QFN3X3-20L



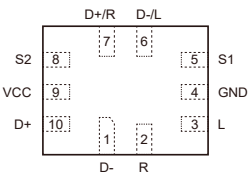
BCT4481H

QFN9.0x3.5-42L



BCT4888

QFN1.8X1.4-10L



BCT4321N



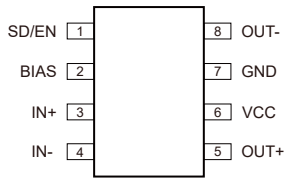
- Amplifiers
  - Audio PA
  - CMOS OPA
  - FM LNA

Audio PA

PART No.	Description	Class	Po- 8Ω (W)	VIN (V)	THD+N (%)	ISHDN (uA)	PSRR (dB)	Package	Cross Reference
BCT8002/H	Low-Cost, Mono 2.2W/4Ω Audio Power Amplifier/ High Enable	AB	1.5	2.5-5.5	0.1	1	-64	SOP8	BD783XX/LY8898 IS31AP4991A/4996/APA3010 LM4871/4902 /4991 TPA301/321/701/721/741 SGM4871/TS4871/TS4890 NCS2111/SSM2211
BCT8890/H	Low-Cost, Mono 2.2W/4Ω Audio Power Amplifier/ High Enable	AB	1.5	2.5-5.5	0.1	1	-64	MSOP8 DFN2x2-8L DFN3x3-8L	IS31AP4991/4991A/4996 APA3010/EMA2004 TPA301/321/701/721/741 TS4871/TS4890
* BCT8203	1.3W Full Differential Class AB Audio PA	AB	1.3	2.5-5.5	0.007	2	-85	MSOP8 TDFN3x3-10L	SGM4996/TPA6203A1
BCT8005	Low-Cost, Mono 2.8W/4Ω Audio Power Amplifier	D	1.67	2.8-5.5	0.11	0.1	-80	SOP8 MSOP8 DFN2x2-8L	XX8005/PAM8303C RT9010/SSM2305 EMA2011/TPA2005
BCT8013	Low-Cost, Mono 2.8W/4Ω Audio Power Amplifier	D	1.67	2.8-5.5	0.11	0.1	-80	QFN1.5x1.5-9L	AW8010/PAM8013
BCT8933B	Class T Audio Amplifier	T	2	2.5-5.5	0.03 0.06	0.1	-70	QFN3x3-20L	XX8733
BCT8937B	Class T Audio Amplifier	T	1.2	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX8737S
BCT89317B	Class T Audio Amplifier	T	2.15	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX87317
BCT89318A	Class T Audio Amplifier	T	2.15	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX87318
* BCT8902	Low-Cost, Mono 2.8W Audio Power Amplifier	T	2.8	3-4.2	0.009	0.1	-86	WLCSP-15L	
* BCT8905	Mono 5W Audio Power Amplifier	T	5	3-4.2	0.009	1	-86	ESOP16	

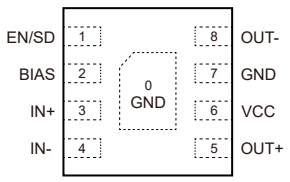
* Please Contact Our Sales Office For More Details

SOP8/MSOP8



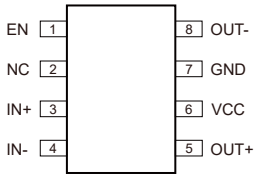
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BCT8890/BCT8890H/BCT8203

DFN3x3-8L/DFN2x2-8L



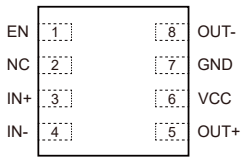
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SOP8/MSOP8



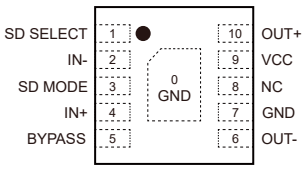
BCT8005

DFN2x2-8L



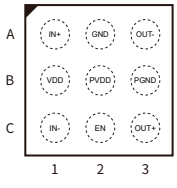
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TDFN3x3-10L



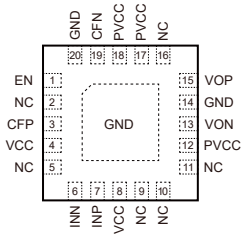
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QFN1.5x1.5-9L



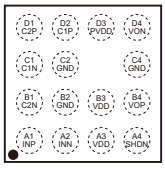
BCT8013

QFN3X3-20L



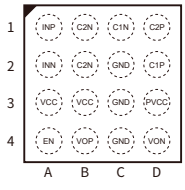
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WCSP-15L



BCT8902

FCQFN1.6x1.6-16L

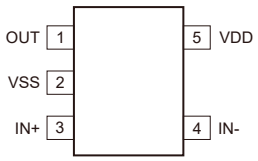


BCT8937B/BCT89317B
BCT89318A

CMOS OPA

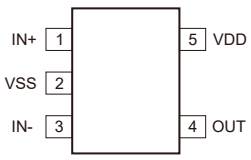
PART No.	Description	V_{IN} Range (V)	I_Q/Channel (mA)	V_{OS} (mV)	PSRR (dB)	Gain Bandwidth (MHz)	Slew Rate (V/uS)	Package	Cross Reference
BCT8321	1 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.12	±0.8	80	1	0.65	SOT23-5	LMV321A MCP6001 SGM321B
BCT8321B	1 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.12	±0.8	80	1	0.65	SOT23-5	LMV321 MCP6L01U SGM321
BCT8358	2 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.06	±0.8	80	1	0.65	SOP8 DFN2x2-8L	LMV358 LMV6002 LM2904LV MCP6002 SGM358
BCT8324	4 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.06	±0.8	80	1	0.65	SOP14	LMV324 LMV6004 LM2902LV MCP6004 SGM324
BCT8721	1 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	2.2	±0.85	85	15	9	SOT23-5	LMV721 TLV9061 TLV316 MCP6291 SGM721
BCT8721B	1 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	2.2	±0.85	85	15	9	SOT23-5	TLV9061 TLV316
BCT8722	2 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	1.1	±0.85	85	15	9	SOP8 DFN2x2-8L	LMV722 MCP6292 SGM722
BCT8724	4 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	1.1	±0.85	85	15	9	SOP14	LMV724 MCP6294 SGM724

SOT23-5



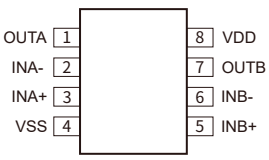
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SOT23-5



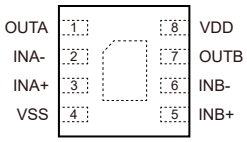
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SOP8/MSOP8



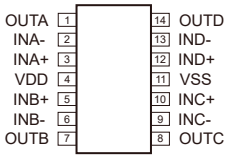
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DFN2x2-8L



BCT8358/BCT8722

SOP14

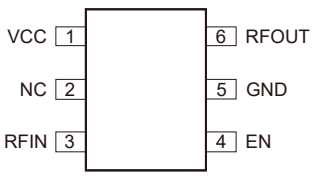


BCT8324/BCT8724

FM LNA

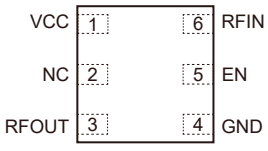
PART No.	Description	V_{CC} Range (V)	I_Q (mA)	Power Gain (dB)	Noise Figure (dB)	Input Return Loss (dB)	Reverse Isolation (dB)	Output Return Loss (dB)	Package	Cross Reference
BCT5007	FM Low Noise Amplifier	2.6-3.6	9.2	21	1.2	-3.7	-39.8	-20.5	SOT363	XX5007
BCT5008	FM Low Noise Amplifier	2.6-3.6	9.2	21	1.2	-3.7	-39.8	-20.5	DFN1x1-6L	AW5037

SOT363

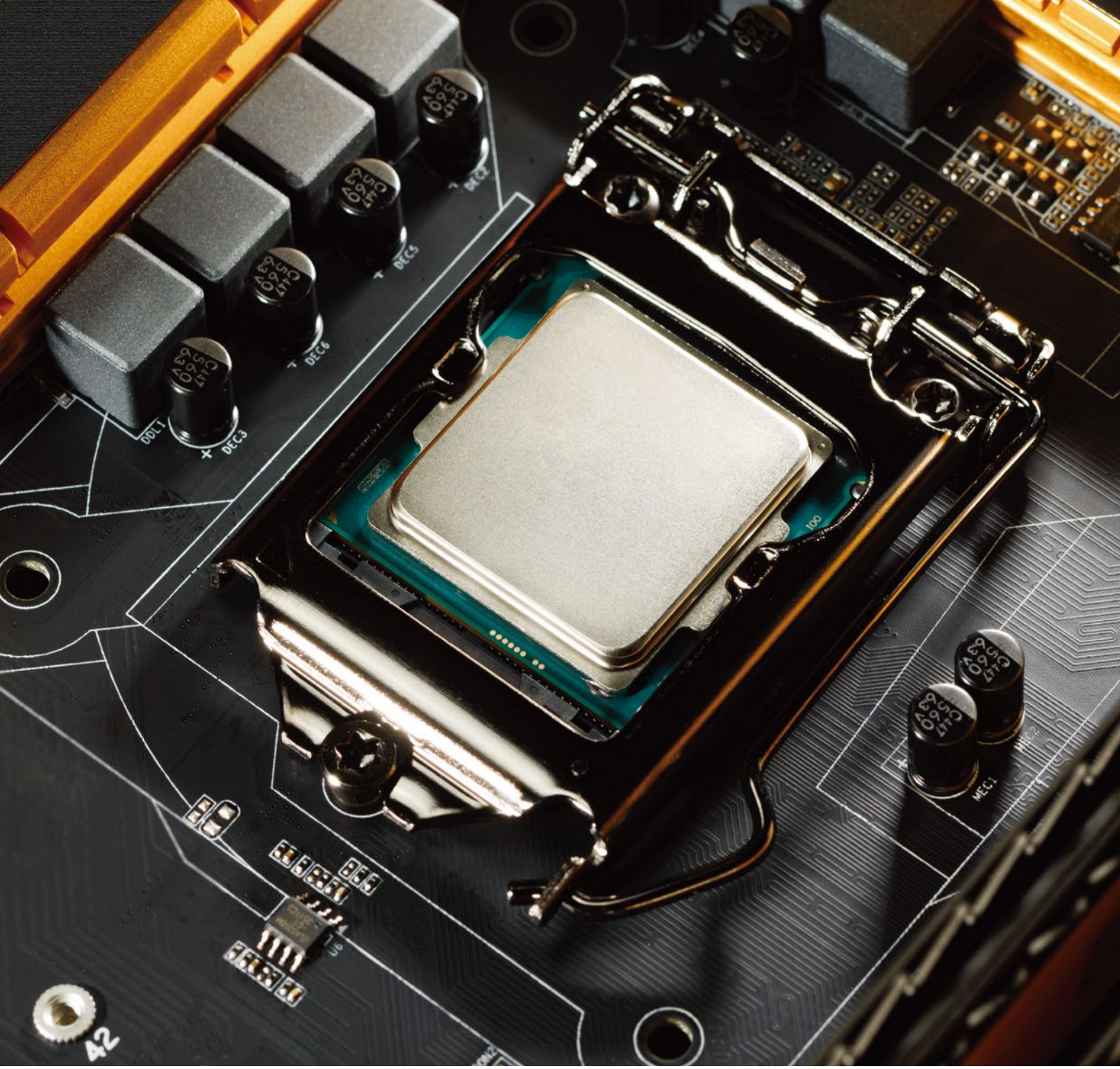


BCT5007

DFN1x1-6L



BCT5008



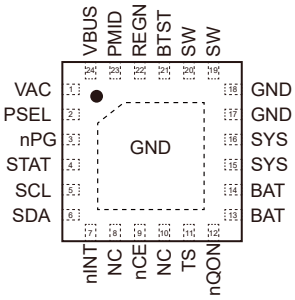
- Power Management
  - Charger
  - LDO
  - OVP
  - Load Switch
  - DC-DC Converter

Charger

PART No.	Description	Maximum Charge Current (A)	End of Charge Current	V_{BUS} (V)	V_{BUS_MAX} (V)	Charge Voltage Range (V)	Package	Cross Reference
BCT2601	3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator	3	ADJ	3.9-13.5	20	3.86-4.62	QFN4x4-24L	BQ25601
*BCT2601D	3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator and BC1.2 available	3	ADJ	3.9-13.5	20	3.86-4.62	QFN4x4-24L	BQ25601D
*BCT2601S	3A Single-Cell Li-Ion Switching Charger with OTG/BC1.2and Supports ultra-low power wake-up and solar charging	3	ADJ	3.9-13.5	20	3.86-4.62	QFN4x4-24L	
*BCT2601E	3A Single-Cell Li-Ion Switching Charger with OTG/BC1.2and The VBAT pin can withstand higher surge levels	3	ADJ	3.9-13.5	20	3.86-4.62	QFN4x4-24L	
*BCT2603	3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator and BC1.2 available	3.78	ADJ	3.9-13.5	20	3.86-4.62	QFN4x4-24L	
BCT4056	1.0A Li-Ion Linear Charger Management	1.0	C/10	4.0-6.5	6.5	4.2-4.35	ESOP8	XXX4056
BCT4054	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-6.5	6.5	4.2-4.35	SOT23-5	XXX4054
BCT4057	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-6.5	6.5	4.2-4.35	SOT23-6	XXX4057
*BCT40561 /541/571	1.0/0.7A Li-Ion Linear Charger Management	1.0/0.7	C/10	4.0-28	28	4.2-4.35	ESOP8 DFN2x2-8L SOT23-5 SOT23-6	XXX40561

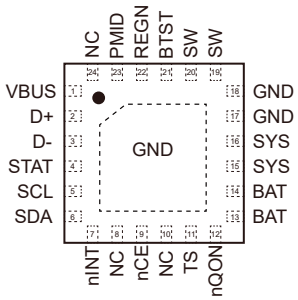
* Please Contact Our Sales Office For More Details

QFN4x4-24L



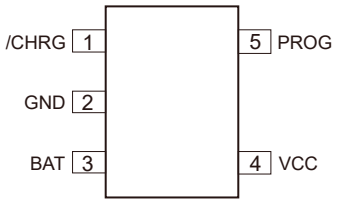
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QFN4x4-24L



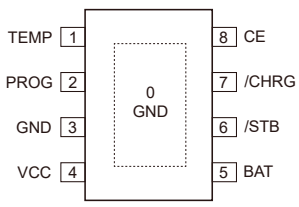
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SOT23-5



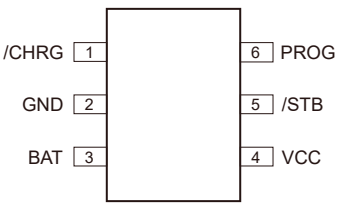
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ESOP8



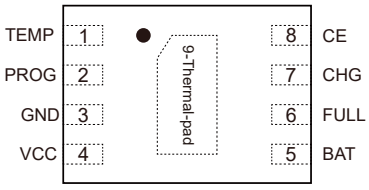
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SOT23-6



BCT4057/BCT40571

DFN2x2-8L



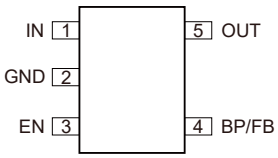
BCT40561

LDO (Low Voltage)

PART No.	Description	V_{IN} Range (V)	V_{OUT} Range (V)	I_Q (uA)	I_{OUT} (mA)	Current Limit (mA)	PSRR (dB@1KHz)	Package	Cross Reference
*BCT2024	300mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	300	560	70	SC70-5 SOT23-5 UTDFN1x1-4L	SGM2036
BCT2021	300mA Low IQ Low Dropout Regulators	1.6-6.0	1.0 1.2 1.8 2.5 2.8 3.0 3.3	35	300	500	70	SC70-5 SOT23-3 SOT23-5 UTDFN1x1-4L	SGM2036 ETA5053
*BCT2026	70dB 300mA Dual LDO Linear Regulators	1.6-6.0	1.6 1.8 2.8 3.0 6.0	70	300	500	70	SC70-5 SOT23-3 SOT23-5 UTDFN1x1-4L	TLV703 SGM2036
BCT2038	500mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	500	800	75	SC70-5 SOT23-3 SOT23-5 SOT89-3	TLV755P ME6211
BCT2211	500mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	500	800	70	SC70-5 SOT23-5	TLV755P
BCT2561	2uA IQ, Low Dropout Regulators	1.6-5.5	0.75 0.8 1.05 1.2 1.3 1.5 1.8 1.85 2.5 2.8 3.0 3.3	2	300	550	70	SOT23-3 SOT23-5 UTDFN1x1-4L	XC6233 RP110L RT9073 TPS7A05
BCT2562	2uA IQ, Low Dropout Regulators	1.6-5.5	0.8 0.9 1.2 1.3 1.5 1.8 1.85 2.5 2.8 3.0 3.3	2	600	1000	70	SOT23-3 SOT23-5 UTDFN1x1-4L	XC6233 RP110L RT9073 TPS7A05

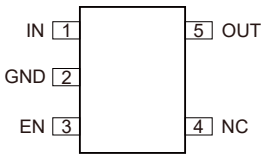
* Please Contact Our Sales Office For More Details

SOT23-5 SC70-5



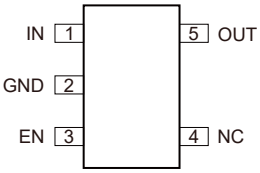
BCT2024/BCT2026
BCT2038/BCT2211

SOT23-5 SC70-5



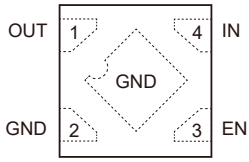
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SOT23-5



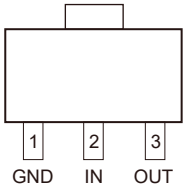
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UTDFN1x1-4L DFN1x1-4L



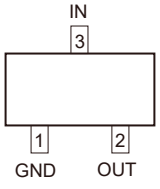
BCT2024/BCT2021/BCT2026
BCT2561/BCT2562

SOT89-3



BCT2038

SOT23-3



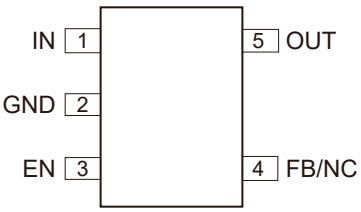
BCT2021/BCT2026/BCT2038
BCT2561/BCT2562

LDO (Low Voltage)

PART No.	Description	V_{IN} Range (V)	V_{OUT} Range (V)	I_Q (uA)	I_{OUT} (mA)	Current Limit (mA)	PSRR (dB@1KHz)	Package	Cross Reference
BCT2057	1000mA Low Dropout Regulators	1.6-5.5	0.8 0.9 1.0 1.05 1.1 1.2 1.3 1.35 1.5 1.8 2.2 2.5 2.8 3.0 3.3 3.6 (0.8-5.0)ADJ	30	1000	1800	60	SOT23-5 DFN2x2-6L	TLV757 XC6227
BCT2910	Ultra Low Noise and High PSRR LDO Regulators	1.8-5.5	1.2 1.5 1.8 2.5 2.8 3.0 3.3 4.2 5.0	14	300	530	94	WLCSP-4L	LP5910
BCT2160	Ultra Low Noise and High PSRR LDO Regulators	1.8-5.5	1.2 1.5 1.8 2.5 2.8 3.0 3.3 4.2 5.0	14	300	530	94	SOT23-5 DFNFC1x1-4L	NCP160 TPS7A20 LP5907 SGM2033
BCT2186	1000mA Ultra Low Dropout Regulators	1.8-5.5	0.8 0.9 1.0 1.05 1.1 1.2 1.3 1.35 1.5 1.8 2.2 2.5 2.8 3.0 3.3 3.6 (0.8-5.0)	30	1000	1400	75	DFN1.6x1.2-8L	NCP186 RP115
BCT2186L	1000mA Ultra Low Dropout Regulators	1.6-5.5	(0.6-5.0)ADJ	30	1000	1400	75	DFN2x2-6L	
*BCT2157	1000mA Ultra Low Dropout Regulators	1.6-5.5	1.8 2.5 3.3 (0.8-5.0)ADJ	33	1000	1400	70	DFN2x2-6L	

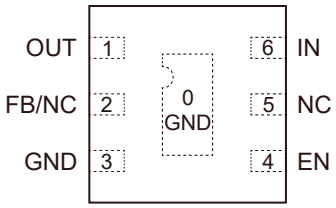
* Please Contact Our Sales Office For More Details

SOT23-5



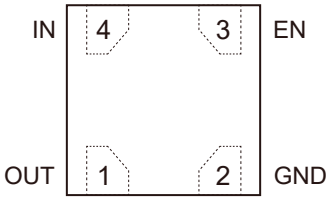
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DFN2x2-6L



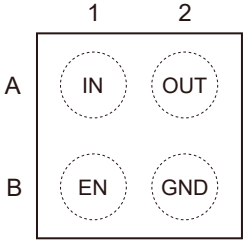
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DFNFC1x1-4L



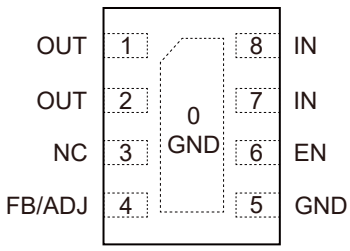
BCT2160

WLCSP-4L



BCT2910

DFN1.6x1.2-8L



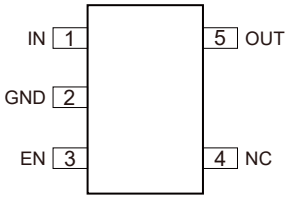
BCT2186

LDO (High Voltage)

PART No.	Description	V_{IN} Range (V)	V_{OUT} Range (V)	I_Q (uA)	I_{OUT} (mA)	Current Limit (mA)	PSRR (dB@1Khz)	Dropout(3.3V) (mV)	Package	Cross Reference
BCT2014	0.7uA IQ Low Dropout Regulators	2.5-15	1.5 1.8 2.5 2.8 3.0 3.3 3.6 4.2 4.5 5.0	0.7	300	500	40	320	SC70-5 SOT23-3 SOT23-5 SOT89-3 UTDFN1X1-4L	XC6233 RP110L RT9073
* BCT2221	4.8uA IQ Low Dropout Regulators	2.5-16	3.3 ADJ	4.8	300	500	70	320	SOT23-3 SOT23-5 SOT89-3 UTDFN1X1-4L	
BCT2203	2.5uA IQ High Voltage Regulators	2.7-36	1.5 1.8 3.0 3.3 4.2 4.5 5.0 8.0 9.0 10.0 12.0	2.5	150	230	40	1300	SOT23-3 SOT23-5 SOT89-3	TLV704 TPS709 SGM2203
BCT78L05A	0.7uA IQ Low Dropout Regulators	5.5-15	5	0.7	300	500	40	320	SOT23-3 SOT89-3	78L05
BCT78L05E	3uA IQ High Voltage Regulators	2.7-36	5	3	150	500	40	1300	SOT23-3 SOT89-3	78L05
*BCT78L10E	3uA IQ Low Dropout Regulators	2.7-36	10	3	150	500	40	1300	SOT23-3 SOT89-3	
*BCT78L12E	3uA IQ High Voltage Regulators	2.7-36	12	3	150	500	40	1300	SOT23-3 SOT89-3	

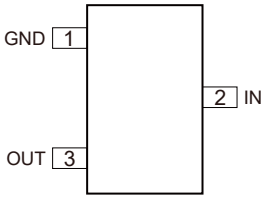
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SOT23-5
SC70-5



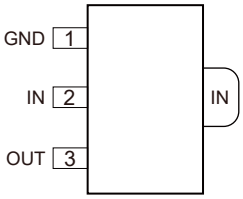
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SOT23-3



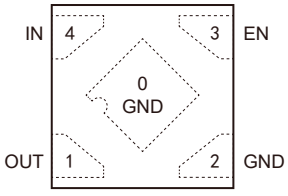
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SOT89-3



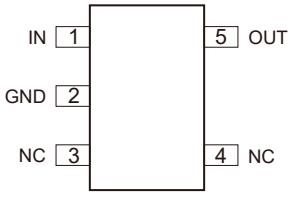
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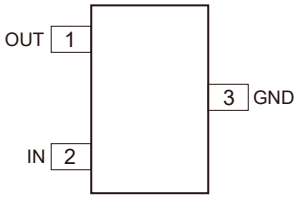
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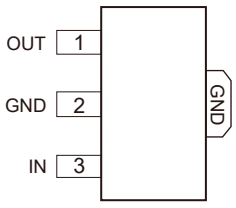
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SOT23-3



BCT78L05A/BCT78L05E
BCT78L10E/BCT78L12E

SOT89-3

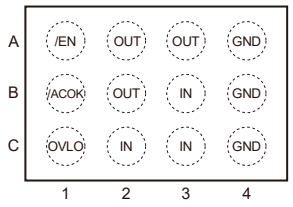


BCT78L05A/BCT78L05E
BCT78L10E/BCT78L12E

OVP

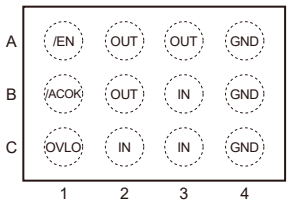
PART No.	Description	R_{DSON} (mΩ)	Continuous Current (A)	Peak current (A)	V_{IN_OVLO} (V)	OVP Adjustable Range (V)	V_{IN_MAX} (V)	Surge Protection (V)	Package	Cross Reference
BCT72905	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	110	QFNFC1.8x1.3-12L	MAX14654 MAX14717 SGM40654 SGM40657
BCT72805	Over-Voltage Protection Load Switch	20	5	8	6.8	4-20	29	120	WLCSP-12L	MAX14654 MAX14717 SGM40654 SGM40657
BCT7915	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	110	QFNFC1.8x1.3-12L	MAX14655 SGM40655 SGM40658
BCT7915H	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	100	QFNFC1.8x1.3-12L	MAX14655 SGM40655 SGM40658
BCT7915C	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	100	WLCSP-12L	

QFNFC1.8x1.3-12L



BCT72905/BCT7915/H

WLCSP-12L



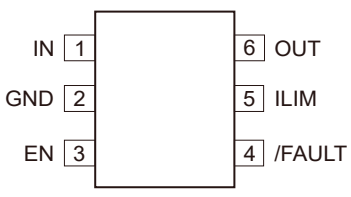
BCT72805/BCT7915C

Load Switch

PART No.	Description	V_{CC} (V)	I_Q (uA)	R_{ON} (mΩ)	I_{LIM} (A)	Over-Current Response (uS)	Quick Auto-Discharge	Response FAULT	Package	Cross Reference
BCT6553	Power Distribution Switch	2.5-5.5	62	90	1.7	2	YES	YES	SOT23-6 TDFN2x2-6L	TPS2551 TPS2552 TPS2553 TPS25221 SGM2553
*BCT6575	Power Distribution Switch	2.5-5.5	140	90	2	2	YES	YES	SOT23-6 WLCSP-4B	SGM2575

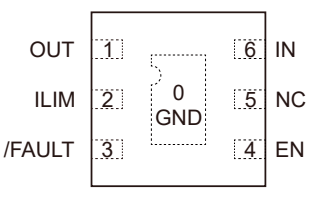
* Please Contact Our Sales Office For More Details

SOT23-6



BCT6553/BCT6575

TDFN2x2-6L



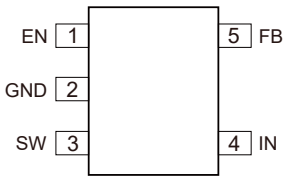
BCT6553

DC-DC Converter

PART No.	Description	Control	V_{IN} Range (V)	V_{OUT} Range (V)	Efficiency (%)	I_{OUT} (A)	I_Q (uA)	Switch Frequency (KHz)	Package	Cross Reference
BCT1721	6.0V 1A Buck Converter	ACOT	2.7-6.0	0.6-3.4	95	1	33	1000	SOT23-5 SOT23-6 DFN1.6x1.6-6L	RT8096C
BCT1722/B	6.0V 2A Buck Converter	ACOT	2.7-6.0	0.6-3.4	95	2	33	1000	SOT23-5 SOT23-6 DFN1.6x1.6-6L	RT8097C
BCT1810	5V 1A Buck Converter	PWM	2.5-5.5	0.6-5	95	1	40	1500	SOT23-5 DFN1.6x1.6-6L	RT8059 NCP1529
BCT1812	5V 1.2A Buck Converter	PWM	2.5-5.5	0.6-5	95	1.2	40	1500	SOT23-5	SGM6012 SGM6018
BCT1814	5V 2A Buck Converter	PWM	2.7-5.5	0.6-5	95	2	55	1000	SOT23-5	SY8089 AX3702
BCT12569A/B	5V 2A Buck Converter	ACOT	2.7-5.5	0.6-5	95	2	55	1000	SOT563	TLV62569 MP1605
*BCT1470	18V 2A Buck Converter	ACOT	4.5-18	0.768-6.5	94	2	380	600	SOT23-6	TPS563240 MP1470
BCT1473	18V 3A Buck Converter	ACOT	4.5-18	0.768-6.5	94	3	380	600	FCSOT23-6	TPS563201
BCT1477	18V 3A Buck Converter	ACOT	4.5-18	0.768-6.5	94	3	380	600	FCSOT563	MP1477 MP1660
BCT1451	42V 0.6A Buck Converter	PWM	5-42	0.8-24	95	0.6	14	1200	SOT23-6	SGM61410 MP2457 MP2460
*BCT1452	42V 1A Buck Converter	PWM	5-42	0.8-24	95	1	14	1200	SOT23-6	JW5101

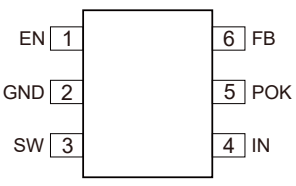
* Please Contact Our Sales Office For More Details

SOT23-5



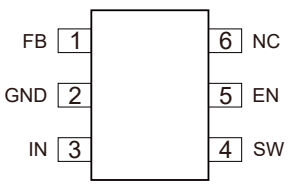
BCT1031/BCT1721/BCT1722/B
BCT1810/BCT1812/BCT1814

SOT23-6



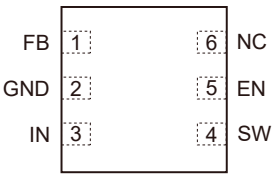
BCT1721/BCT1722/B

SOT563



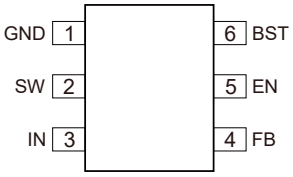
BCT12569A/B

DFN1.6x1.6-6L



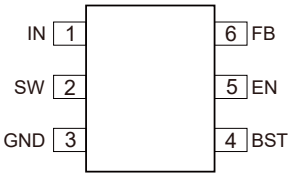
BCT1721/BCT1722/B/BCT1810

SOT23-6
FCSOT23-6



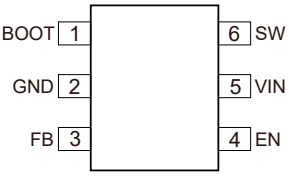
BCT1470/BCT1473

FCSOT563



BCT1477

SOT23-6



BCT1451/1452



- LED Driver
  - AMOLED Power IC
  - Flash LED Driver
  - White LED Driver
  - RGB LED Driver
  - Display LED Driver

AMOLED Power IC

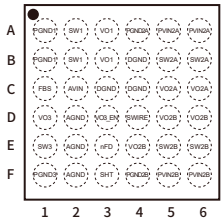
PART No.	Description	Output Channel	Vcc (V)	EL Output Current Max (mA)	AV Output Current Max (mA)	Outputs	Control Interface	Package	Cross Reference
*BCT1838	Triple-output for smart phones and PADs	3	2.5-4.8	1000	150	AVDD:5.5v~7.9v ELVDD:4.6v~5.0v ELVSS:-0.8v~-6.0v	1-wire	WLCSP-36L	

Flash LED Driver

PART No.	Description	V_{IN} (V)	I_Q (mA)	IOUT-Flash Mode (mA)	IOUT-Torch Mode (mA)	VOUT Turn-on Time (uS)	Freq (MHz)	Mode	Efficiency	Package	Cross Reference
*BCT3142/H	1.1A Buck/Boost Charge Pump LED Driver	2.7-5.5	0.4	1100	400	400	1.9	1X/2X	92%	DFN3x3-10L	AW3641E
BCT3144	1.5A x2 Output Flash LED Driver	2.7-5.5	0.6	1500	748	-	2	FLASH TORCH	85%	WLCSP-12L	LM3644 OCP81373
BCT3146	2.0A x2 Output Flash LED Driver	2.7-5.5	0.6	2000	1000	-	2	FLASH TORCH	85%	WLCSP-12L	LM3644 OCP81375

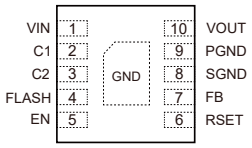
* Please Contact Our Sales Office For More Details

WLCSP-36L



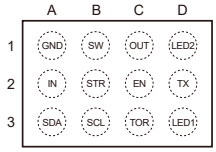
BCT1838

DFN3x3-10L



BCT3142/H

WLCSP-12L

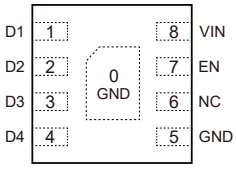


BCT3144/BCT3146

White LED Driver (Parallel)

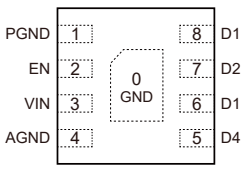
PART No.	Description	LED connection	Vcc (V)	Vdrop (20mA) (mV)	MAX LED Current/CH (mA)	Bright Level	Current Matching	Package	Cross Reference
BCT3220	4 Channel 8 Steps LED Driver	Common-Anode	2.7-5.5	55	20	8	1.50%	DFN2x2-8L	
BCT3364	4 Channel 16 Steps LED Driver	Common-Anode	2.7-5.5	50	20	16	1.50%	DFN2x2-8L	XX9364

DFN2x2-8L



BCT3220

DFN2x2-8L



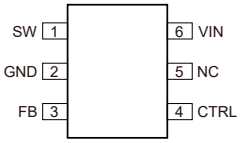
BCT3364

White LED Driver

PART No.	Description	Topology	LED Connection	CH	V_{CC} (V)	V_{REF} (mV)	I_{LIM} (mA)	Switching Frequency (KHz)	V_{OVP} (V)	Package	Cross Reference
BCT3692B	High Performance, Asynchronous Boost for 10 WLED Driver	BOOST	PWM	1	2.7-5.5	200	1500	1100	38	SOT23-6 TSOT23-6	AP3019A RT4533 RT4526 SGM3752
BCT3756/E	WLED Driver with PWM Brightness Control in Small Package	BOOST	PWM	1	2.7-5.5	200	1500	1100	38	DFN2x2-6L	TPS61161A TPS61165 RT4503A SGM3756
BCT3758	WLED Driver with PWM Brightness Control in Small Package	BOOST	PWM	1	2.7-5.5	200	2000	1100	38	DFN2x2-6L	XX9967 XX9968
*BCT3421	LED Driver	BUCK	PWM/PFM	1	3.0-5.5	100	1400	1350	6.9	SOT23-5	TMI5101 ETA3421
BCT3401	Backlight Driver	BUCK	PWM/PFM	1	2.5-5.5	100	1800	1100		SOT23-5	LN2401

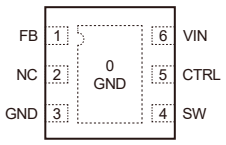
* Please Contact Our Sales Office For More Details

SOT23-6
TSOT23-6



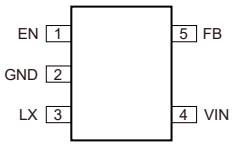
BCT3692B

DFN2x2-6L



BCT3756/E/BCT3758

SOT23-5



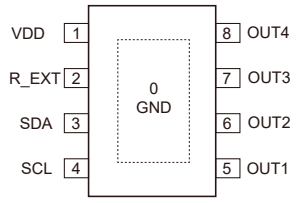
BCT3421/BCT3401

RGB LED Driver

PART No.	Description	Channels	MAX LED Current/CH (mA)	MAX Output Current Setting	Bright level	Vcc (V)	Control	Current match	Package	Cross Reference
HOT! *BCT3104A	4ch 256x256 steps CC LED Driver	4	38	R_EXT	256x256	2.7-5.5	I2C	-	ESOP8	
HOT! *BCT3112A	12ch 256x256 steps CC LED Driver	12	38	R_EXT	256x256	2.7-5.5	I2C	-	QFN3X3-20L	XX21012 LP5012
HOT! *BCT3124S	24ch 256x256 steps CC LED Driver	24	38	R_EXT	256x256	2.7-5.5	I2C	-	QFN4X4-32L	XX21024 LP5024
HOT! *BCT3136S	36ch 256x256 steps CC LED Driver	36	38	R_EXT	256x256	2.7-5.5	I2C	-	QFN5X5-44L	XX21036 LP5036

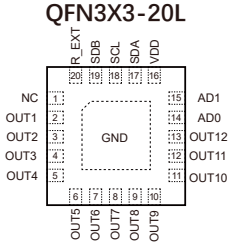
* Please Contact Our Sales Office For More Details

ESOP8



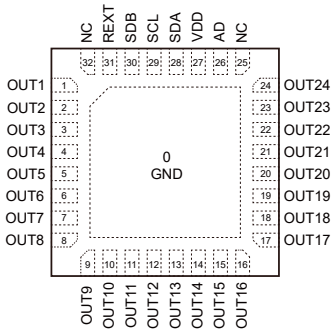
BCT3104

QFN3X3-20L



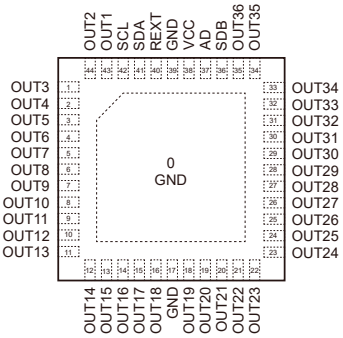
BCT3112

QFN4x4-32L



BCT3124

QFN5x5-44L



BCT3136

Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (°C)	Dots	MAX LED Current/CH (mA)	Bright level	Vcc (V)	Control	Current match	Package	Cross Reference
*BCT3620	8x6 Dots LED Driver	85	48	50	8	2.7-5.5	SPI	±5%	SOP20	XXX1620
*BCT3620B	6x7 Dots LED Driver +6x1 keys	85	42	50	8	2.7-5.5	SPI	±5%	SOP20	XXX1620B

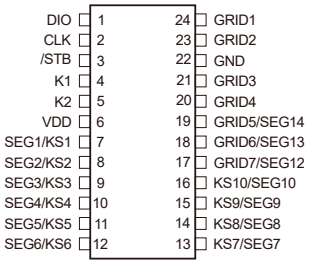
* Please Contact Our Sales Office For More Details

Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (℃)	Dots	MAX LED Current/CH (mA)	Bright level	Vcc (V)	Control	Current Match	Package	Cross Reference
HOT! BCT3668/RE	10x7 Dots LED Driver +10x2 keys	85	70	50	8	3.0-5.5	SPI	±5%	SOP24 SSOP24-0.635	XXX1668
HOT! BCT1668/T	10x7 Dots LED Driver +10x2 keys	85/105	70	50	8	3.0-5.5	SPI	±5%	SOP24 SSOP24-0.635	XXX1668
HOT! BCT3628/RE	10x7 Dots LED Driver +10x2 keys	85	70	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1628
HOT! BCT1628/T	10x7 Dots LED Driver +10x2 keys	85/105	70	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1628

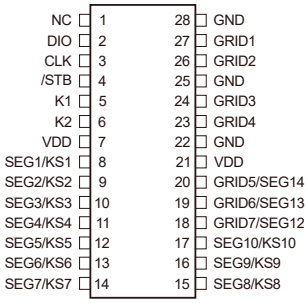
* R: pull up resistor;T:105℃

SOP24
SSOP24-0.635



BCT3668/RE
BCT1668/T

SOP28



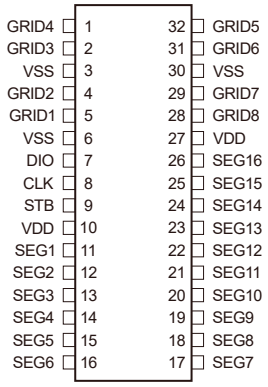
BCT3628/RE
BCT1628/T

Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (°C)	Dots	MAX LED Current/CH (mA)	Bright level	Vcc (V)	Control	Current match	Package	Cross Reference
*BCT3640/N	8x16 Dots LED Driver	85	128	50	8	3.0-5.5	SPI	-	SOP28 SSOP28 QFN4x4-28L	XXX1640
HOT! BCT1640/T	8x16 Dots LED Driver	85/105	128	50	8	3.0-5.5	SPI	-	SOP28 SSOP28	XXX1640
*BCT3629A	16x8 Dots LED Driver	85	128	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629A
*BCT3629B	14x8 Dots LED Driver +8x2 keys	85	112	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629B
*BCT3629C	15x8 Dots LED Driver +8x1 keys	85	120	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629C
*BCT3629D	12x8 Dots LED Driver +8x4 keys	85	96	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629D

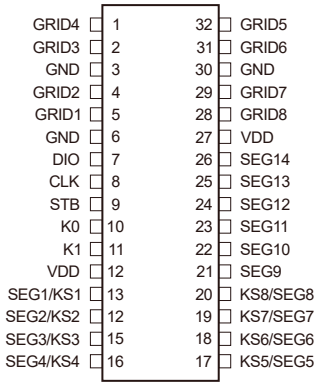
* Please Contact Our Sales Office For More Details;"N" stands for "low-noise"

SOP32



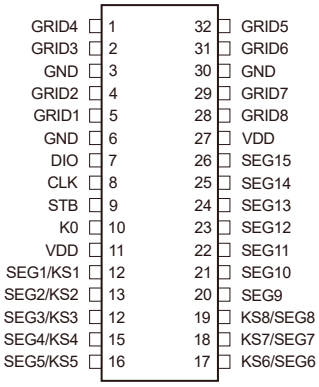
BCT3629A

SOP32



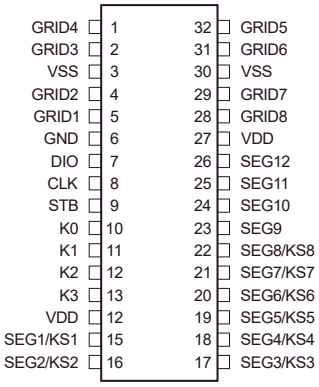
BCT3629B

SOP32



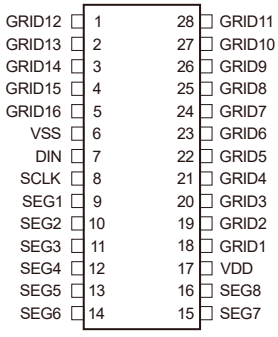
BCT3629C

SOP32



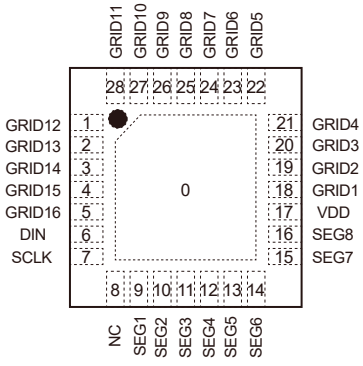
BCT3629D

SOP28
SSOP28

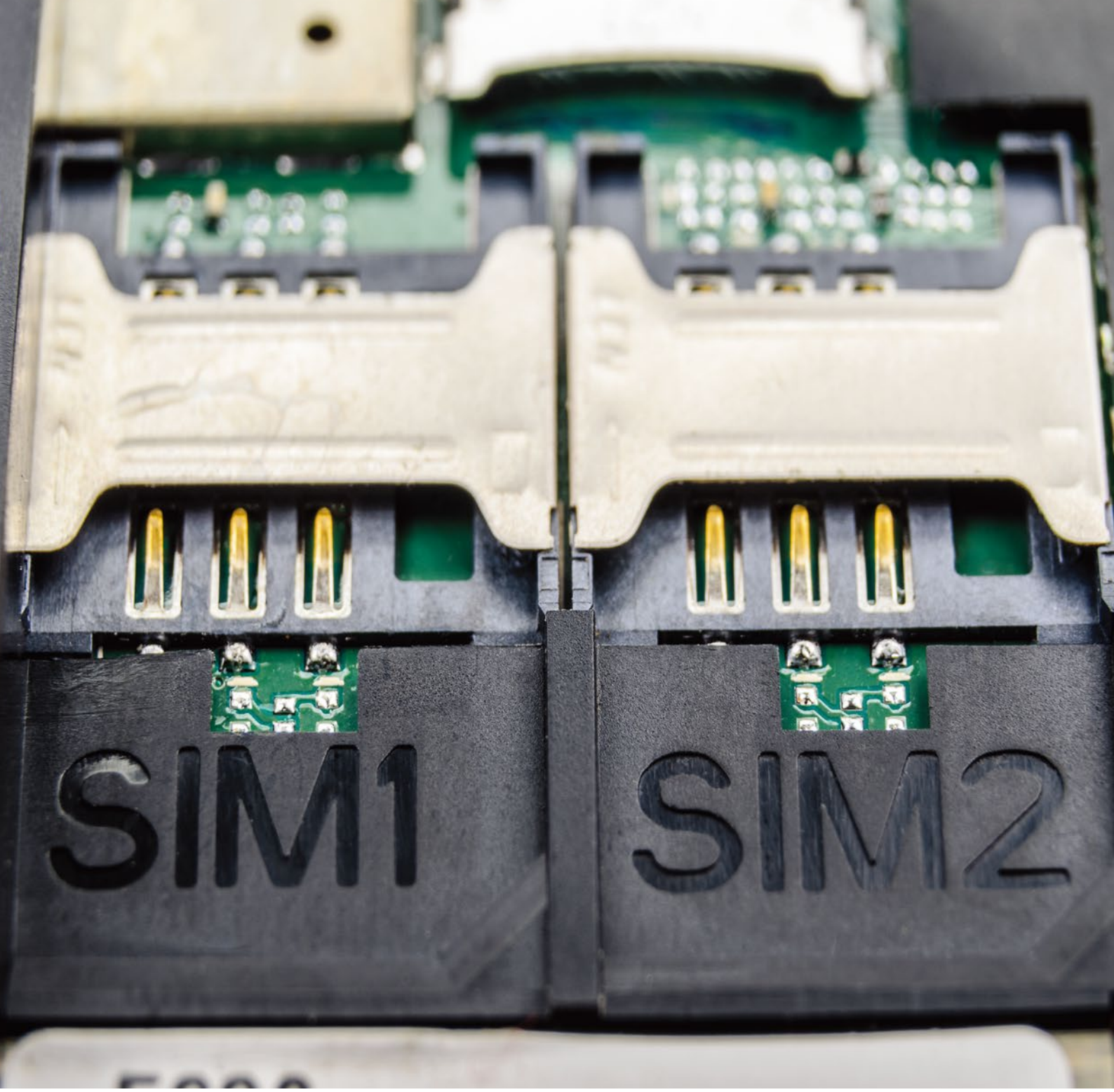


BCT3640/N
BCT1640/T

QFN4x4-28L



BCT3640/N



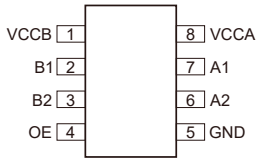
- Level Shifter
  - Bidirectional Level Shifter
  - Multiple SIM Card Controller

Bidirectional Level Shifter

PART No.	Description	Vref_A(Min) (V)	Vref_B(Min) (V)	IQ (uA)	IO/Continuous Current (mA)	Max Data (Mbps) Rate	No. of Bits	Package	Cross Reference
BCT0102	2Bit Bidirectional Level-Shifting	1.65	2.3	7.1	±50	24	2	TSOT23-8 QFN1.4x1.2-8L XTDFN1.4x1.0-8L	TXS0102 SGM4556
*BCT0102H	2Bit Bidirectional Level-Shifting	1.1 1.65	2.3	7.1	±50	24	2	TSOT23-8 QFN1.4x1.2-8L XTDFN1.4x1.0-8L	
BCT0104	4Bit Bidirectional Level-Shifting	1.65	2.3	7.1	±50	24	4	FO-12L TQFN3x3-16L QFN3.5x3.5-14L	TXS0104E FXMAR2104
*BCT74AXC8T245	8Bit Bidirectional Level-Shifting	0.8	0.8	7.1	±50	380	8	QFN5.5x3.5-24L	SN74AXC8T245
*BCT74AXC2T245	2Bit Bidirectional Level-Shifting	0.8	0.8	7.1	±50	380	8	TSSOP8	SN74AXC2T245

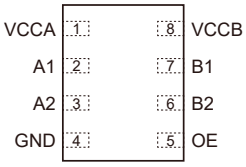
* Please Contact Our Sales Office For More Details

TSOT23-8



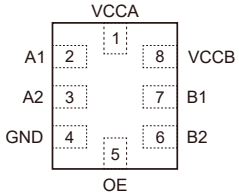
BCT0102/H

XTDFN1.4x1.0-8L



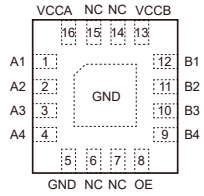
BCT0102/H

QFN1.4x1.2-8L



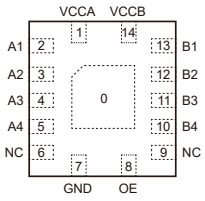
BCT0102/H

TQFN3x3-16L



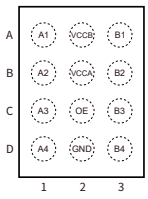
BCT0104

QFN3.5x3.5-14L



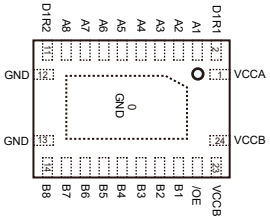
BCT0104

FO-12L



BCT0104

QFN5.5x3.5-24L



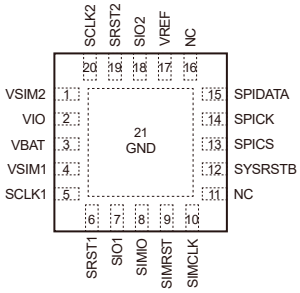
BCT74AXC8T245

Multiple SIM Card Controller

PART No.	Description	VIN (V)	Operating Current (uA)	VIO Operating Voltage (V)	SIM Card Supplies (V)	Output Current Limit (mA)	SCLK Frequency (MHz)	Package	Cross Reference
BCT4302B	Dual SIM Card Controller	2.7-5.5	30	1.65-5.5	1.8/3.0	38	5	QFN3x3-20L	MT6302

* Please Contact Our Sales Office For More Details

QFN3x3-20L



BCT4302B

Broadchip Total Solutions

- **Consumer Electronics**
  - GPS Module
  - Wireless Module
  - Dashboard Camera
  - Bluetooth Speaker
  - Wearable Device
  - Set Top Box
  - IoT
- **Communication**
  - Mobile Phone/Tablet
  - POS/M-POS
  - Router
  - Two Way Radio
- **Home Appliance**
  - Electric Kettle
  - Blender
  - LCD TV
  - Intelligent Hardware
  - Security Camera












Smart Door Lock Solutions



Drone Solutions



BCT3756
8-Bit Bidirectional Level Shifting

BCT2601D
3A Single-Cell Li-Ion Switching Charger

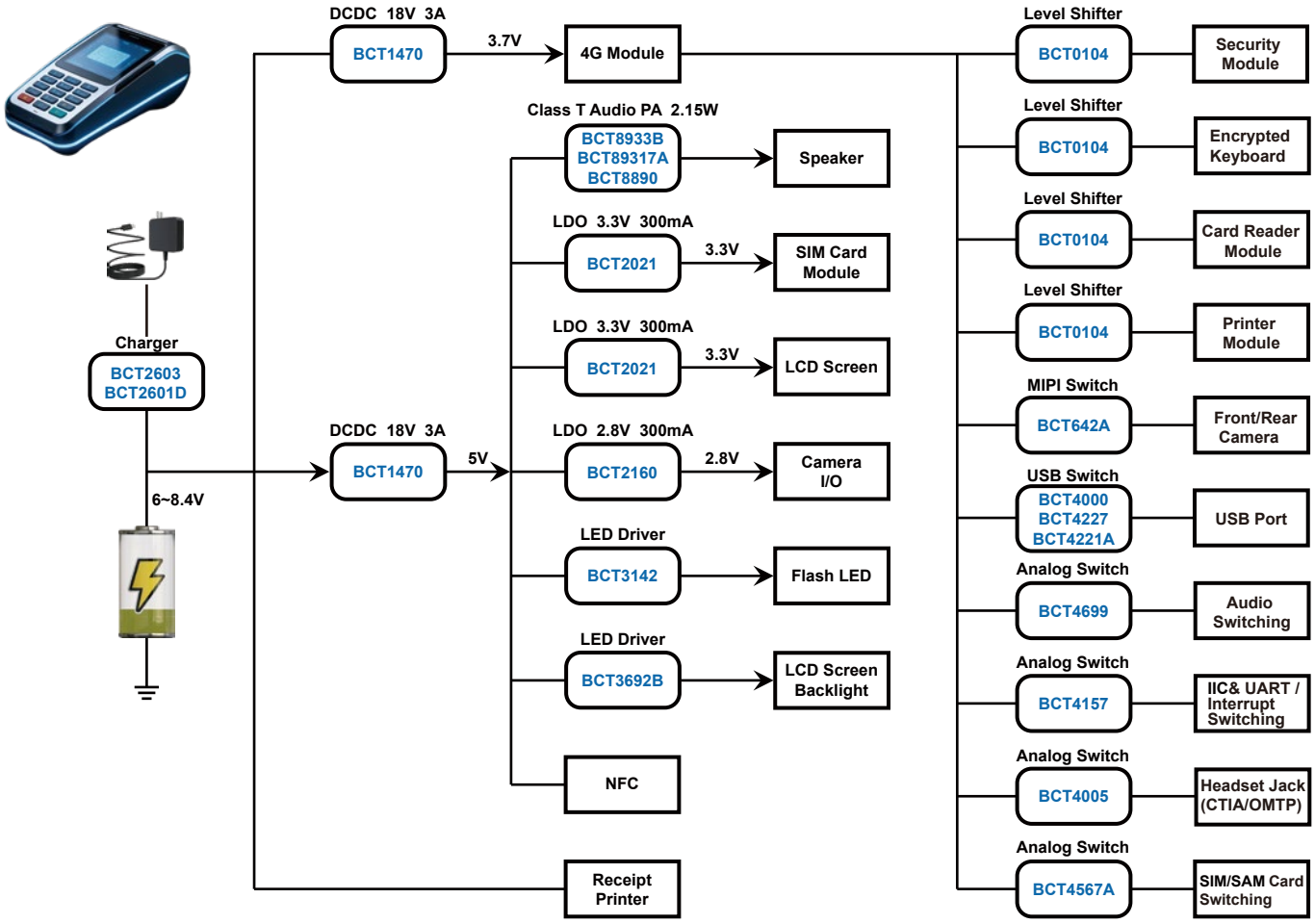
BCT78L10
3uA IQ High Voltage Regulators

BCT3640
8x16 Dots LED Driver

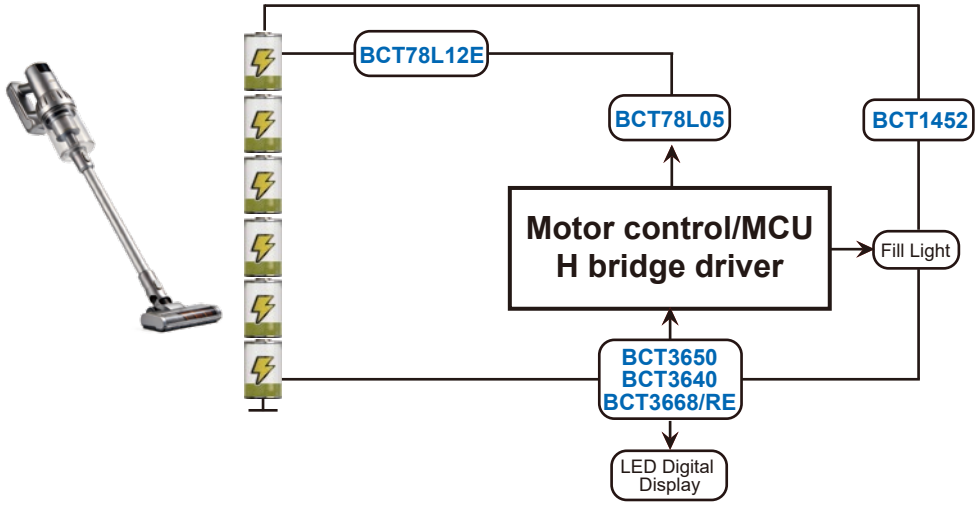
BCT3112
12-Channel 256 steps Constant-Current LED Driver

BCT4350
USB 3.2 SuperSpeed 10 Gbps Switch

Smart POS Solutions



Handheld Vacuum Cleaner Solutions



BCT4000
High-Speed DPDT Analog Switch With OVP

BCT4005
Ultra Low ON-Resistance,Low Voltage, Dual SPDT Analog Switch

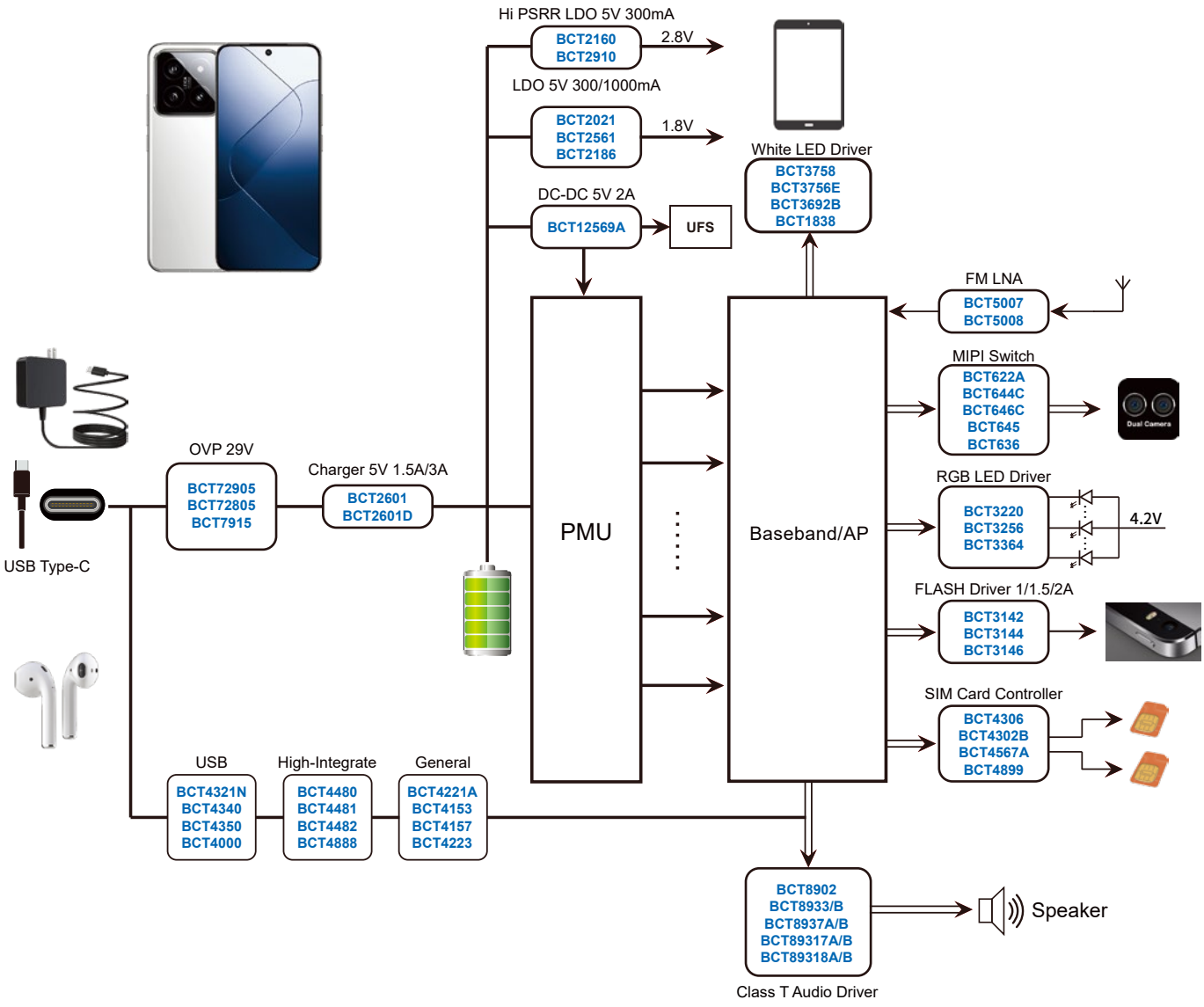
BCT4567A
Low-Power, Dual SIM Card Analog Switch

BCT4227
High-Speed DPDT Analog Switch

BCT3650
LED Display Driver IC

BCT78L12E
3uA IQ High Voltage Regulators

Mobile Phone Solutions



BCT3758
WLED Driver with PWM Brightness Control and Flash Mode

BCT1838
Triple-output for smart phones and PADs

BCT4480
USB Type-C Analog Switch with Protection Function

BCT2021
300mA Low IQ Dropout Regulators

BCT2186
1000mA Ultra Low Dropout Regulators

BCT3756E/BCT3692B
PWM Control LED Driver 38V High Efficiency, Boost WLED Driver with PWM Control

BCT2160/BCT2910
Ultra Low Noise and High PSRR LDO Regulators

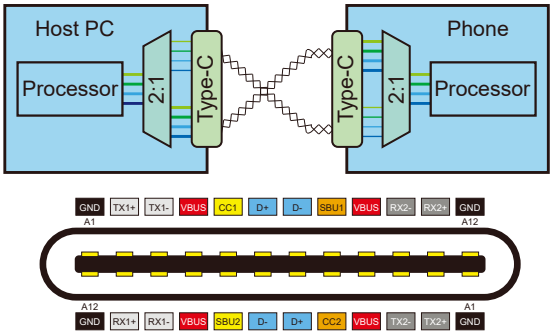
BCT644C
2:1 MIPI D-PHY (2.5Gbps) 4-Data Lane Switch

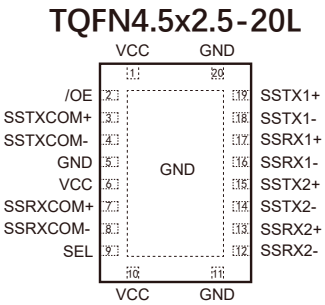
BCT646C
2:1 MIPI D-PHY, C-PHY (4.5Gbps) 4-Data Lane Switch (0.35Pitch)

BCT89318A/B
High Efficiency, Low Noise, Ultralow Distortion, Constant Large Volume Class T Audio Amplifier

BCT8933B
High Power, Low THD+N Class T Audio Amplifier

Analog Switch



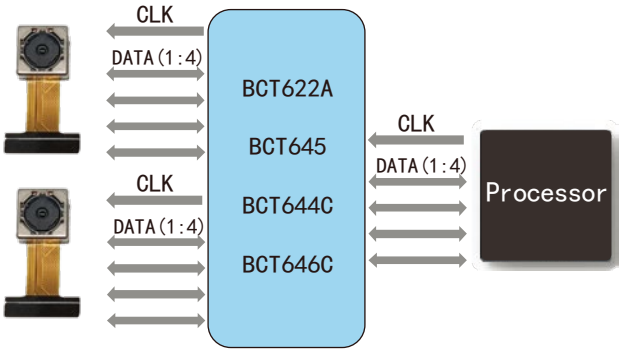


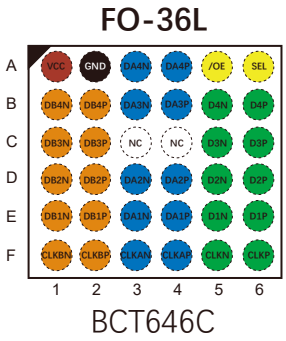


BCT4350 - USB3.2 SuperSpeed 10 Gbps Switch

Features

- 10 GHz Typical Bandwidth
- USB 3.2 SuperSpeed 5Gbps and10 Gbps Switch
- -1.0 dB Typical Insertion Loss at 2.5 GHz
- Wide VDD Operating Range, 1.5 V-5.0 V
- Low Active Power of 12 μA Typical
- 2 kV HBM ESD Protection
- Low Shutdown Power of < 1 μA Max
- Small Package, TQFN 4.5x2.5-20L



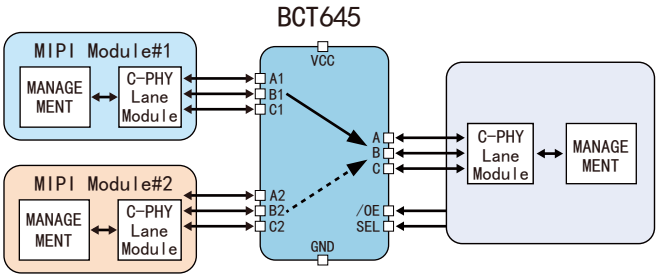


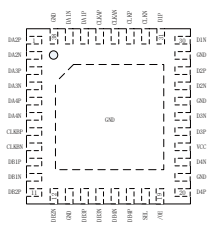


BCT646C - 2:1 MIPI D-PHY(4.5Gbps) 4-Data Lane Switch

Features

- Signal Types: MIPI D-PHY, C-PHY
- Ron: 6.5Ω Typial HS MIPI / 6.5Ω Typial LP MIPI
- -3dB Bandwidth: 4.5GHz Typical
- ICC: 35uA Maximum
- Con: 1.5pF
- 36-Ball FO-36L Package





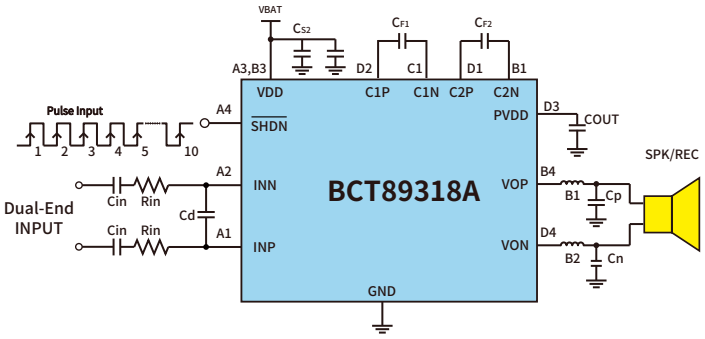


BCT645 - 2:1 MIPI C-PHY(2.5Gbps) 4-Data Lane Switch

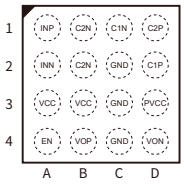
Features

- Signal Types: SPDT(10x)
- Ron: 7.0Ω Typial
- -3dB Bandwidth: 2.5GHz Typical
- I_Q: 12uA Maximum
- Con: 5.0pF
- QFN4x4-38L Package

Audio Amplifier



FCQFN1.6x1.6-16L



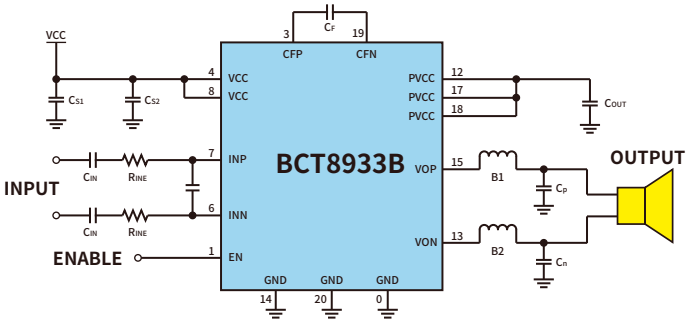
BCT89318A



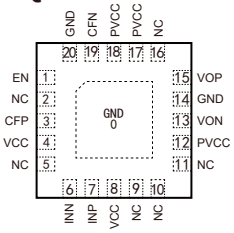
BCT89318A-High efficiency, Low noise Class T Audio Amplifier

Features

- ·Class T Audio Amplifier
- ·Low noise: 43μV
- ·Selectable speaker-protection power level: 2.15W (Max Po-8Ω)
- ·ESD protection: ±6kV (HBM)
- · Receiver: 3V/V, Vn=22uV, THD+N=0.01%
- · Excellent pop-click suppression
- · One wire pulse control
- · Small 0.4mm pitch 1.58mm×1.63mm, WCSP-14L package



QFN3X3-20L



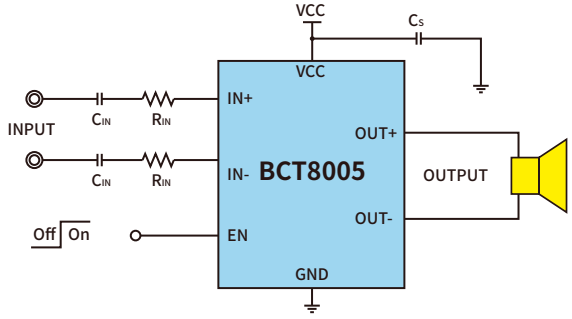
BCT8933B



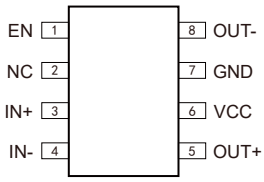
BCT8933B-High Power, Low THD+N Class T Audio Amplifier

Features

- ·Digital Power Modulation audio algorithm
- ·2.0W into 8Ω at 4.2V(10% THD+N)
- ·Ultra-Low THD+N: 0.03%
- ·4 Mode selected by one-wire pulse
- · High PSRR:-70dB
- · Short Circuit and Thermal Protection
- · ±8KV HBM ESD
- · Small 3mm×3mm 20-Pin QFN Package



SOP8



BCT8005

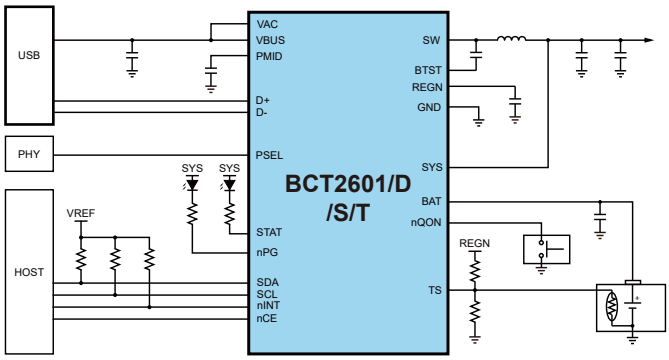


BCT8005-2.8W Mono Filter-less Class-D Audio Amplifier

Features

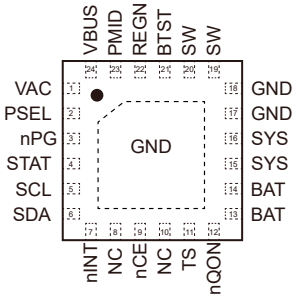
- · Supply voltage range: 2.8V to 5.5V
- · Support single-ended or differential analog input
- · Low Quiescent Current
- · Low Output Noise
- · Low shut-down current
- · Short power-on transient time
- · Short-circuit protection
- · Over-temperature protection
- · Internal pull-low resistor on shut-down pins
- · 1.67W/ch into 8Ω loudspeaker
- · >3W/ch into 4Ω loudspeaker
- · Loudspeaker power within 10% THD+N
- · Loudspeaker efficiency 93% @ 8Ω, THD+N=10%, 85% @ 4Ω, THD+N=10%
- · Integrated Feedback Resistor of 300kΩ

Charger



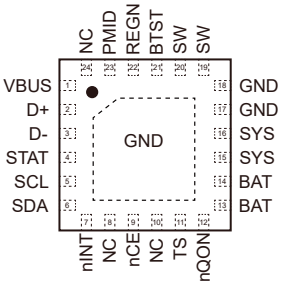


QFN4x4-24L



BCT2601

QFN4x4-24L

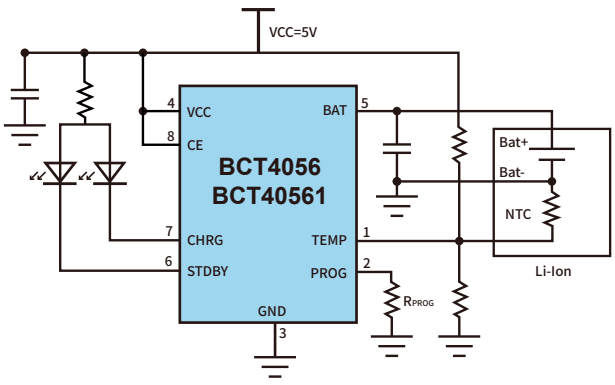


BCT2601D/S/T

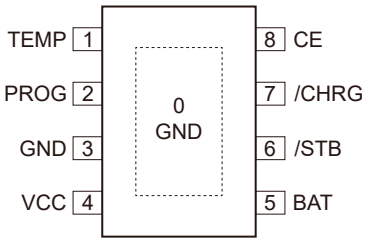
BCT2601/D/S/T - 3A Single-cell Li-Ion Switching Charger with USB-OTG Boost

Features

- Auto Detect USB BC1.2,SDP,CDP,DCP and Non-Standard Adaptors
- High Efficiency 1.5MHz Synchronous Buck Charger
- 20V Absolute Maximum Input Voltage Rating
- Boost Converter with up to 1.2A Output
- 3.9V to 13.5V Operating Input Voltage Range
- 91% Charger Efficiency at 2A from 5V Input
- Output Short Circuit Protection



ESOP8



BCT4056/BCT40561

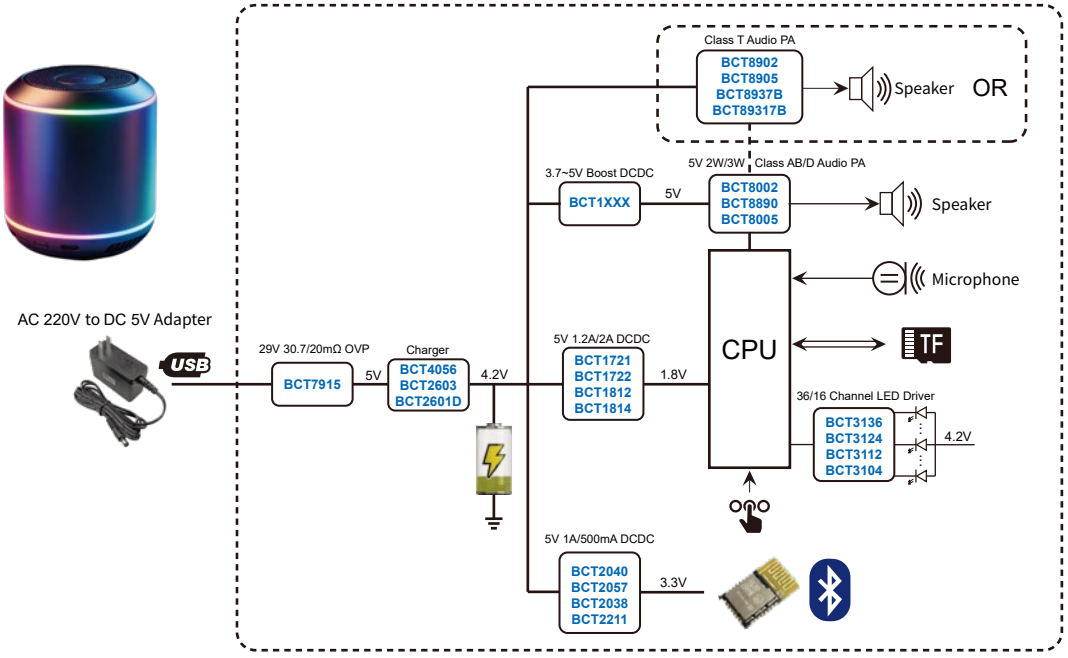


BCT4056/40561 - 1.0A Single-Cell Li-Ion Linear

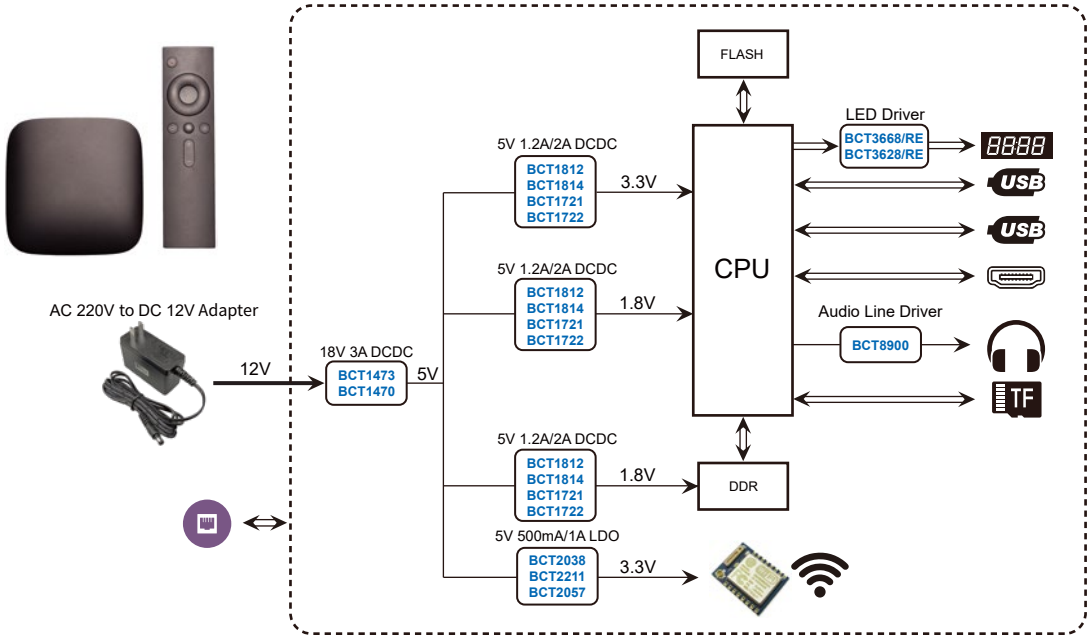
Features

- Integrated Power FETs for Up To 1.0A Charge Current
- Charge Termination Voltage: 4.2V(Typ.), 4.35V(Typ.)
- Standby Current: 55uA(Typ.)
- C/10 Charger Termination
- 6.5V Maximum Operating Input Voltage
- Programmable Charge Current
- Trickle Charger Voltage: 2.9V(Typ.)

Bluetooth Music Box Block Diagram



Set Top Box Block Diagram



BCT1470
18V 2A Buck Converter

BCT1814
5V 2000mA 1MHz Synchronous Step-Down Converter

BCT2038
5V 500mA Low Dropout Linear Regulators

BCT2057
5V 1000mA Low Dropout Linear Regulators

BCT3668/RE
70 Channels LED Driver With Slope Lighting Mode

BCT3124
24-Channel 256 Steps Constant-Current LED Driver

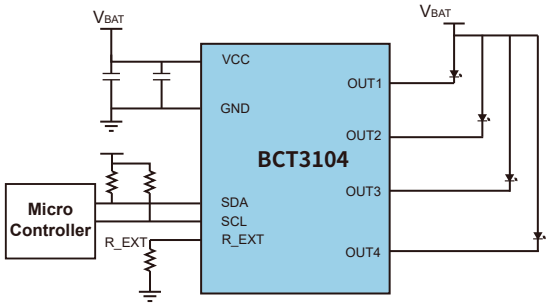
BCT8002/BCT8002H
Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

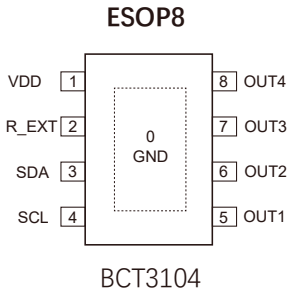
BCT8005
Low-Cost, Mono 1.67W(RL=8Ω) Class D Audio Power Amplifier

BCT8937B/BCT89318A
High Efficiency, Low Noise Class T Audio Amplifier

BCT7915
Over-Voltage Protection Load Switch

RGB LED Driver



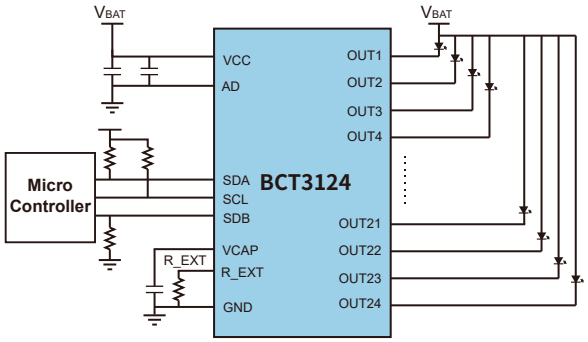


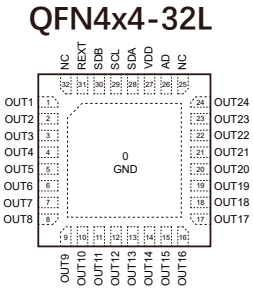


BCT3104 - 4 CHANNELS LED Driver With Auto Slope Lighting Function

Features

- 2.7V to 5.5V supply
- 8 bits PWM Duty, Internal reset register
- Modulate LED brightness with 256 levels
- Each channel can be controlled independently
- -40°C to +85°C temperature range
- ESOP8



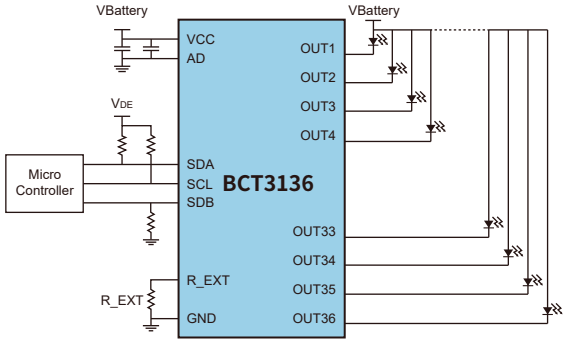


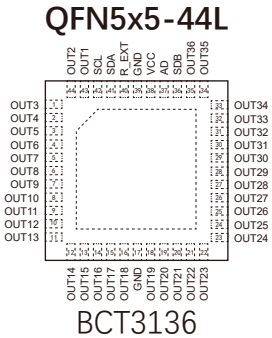


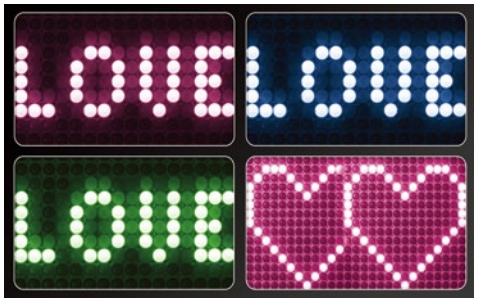
BCT3124 - 24 CHANNELS LED Driver with slope lighting function

Features

- 2.7V to 5.5V supply
- I2C interface, automatic address increment function
- Internal reset register
- Modulate LED brightness with 256 levels
- Each channel can be controlled independently
- -40°C to +85°C temperature range
- QFN4x4-32L (4mm × 4mm)







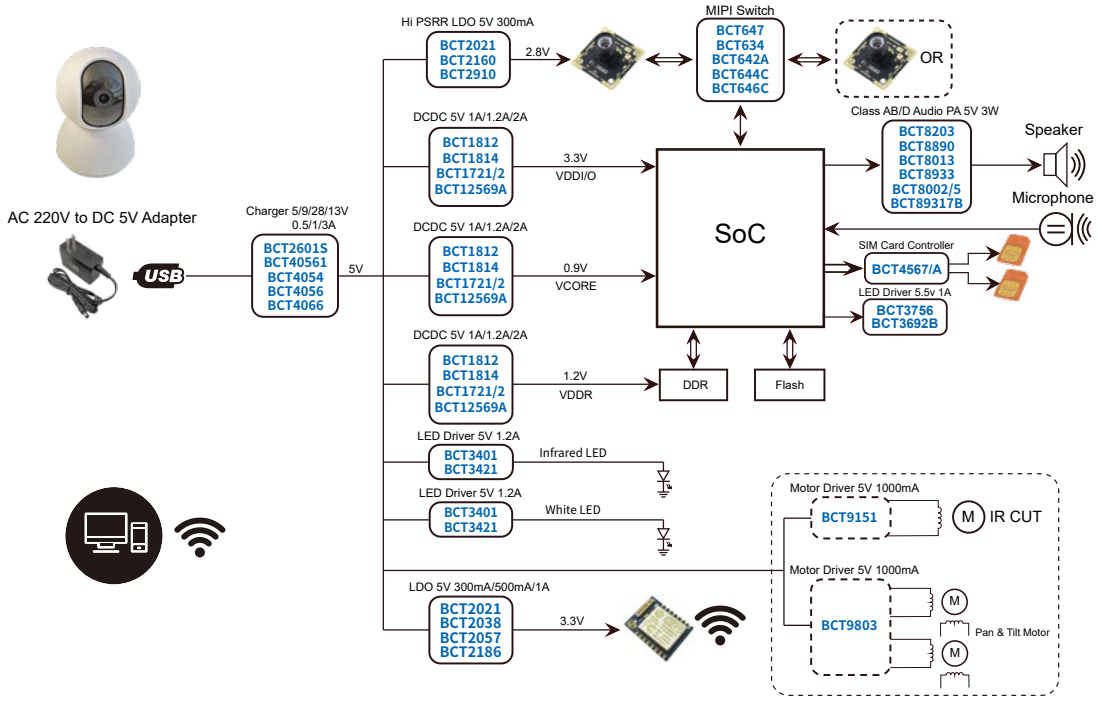
BCT3136 - 36 CHANNELS LED Driver with slope lighting function

Features

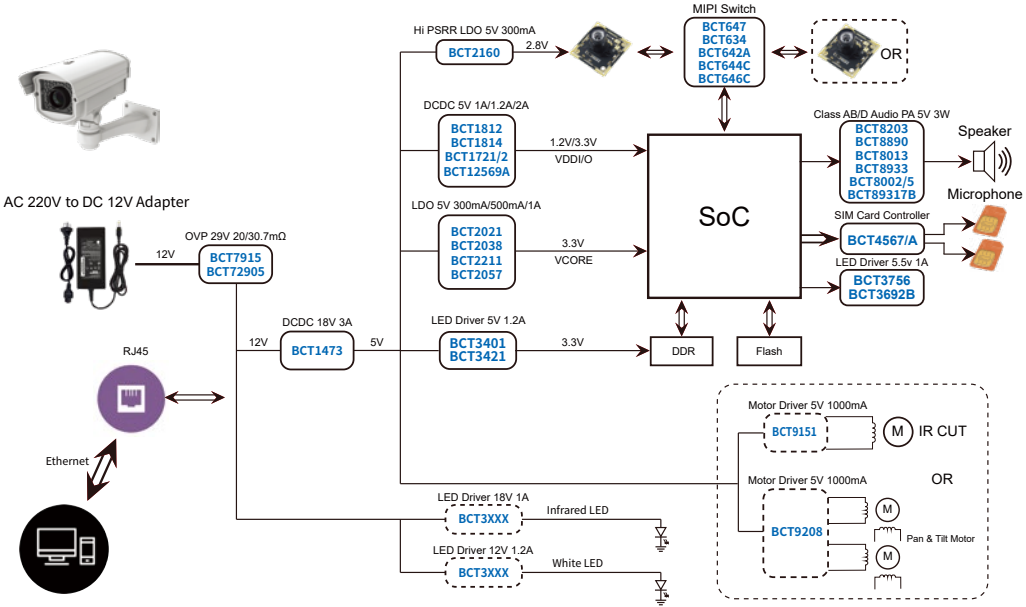
- 2.7V to 5.5V supply
- I2C interface, automatic address increment function
- Internal reset register
- Modulate LED brightness with 256 levels
- Each channel can be controlled independently
- 8 bits PWM Duty
- -40°C to +85°C temperature range
- QFN5x5-44L (5mm × 5mm)

Security Camera Solution

Smart WiFi Pan&Tilt Camera Block Diagram



Network Camera Block Diagram



BCT1473
3A 600KHz Synchronous Step-Down Converter

BCT2021
5V 300mA Low Dropout RF-Linear Regulators

BCT2038
5V 500mA Low Dropout Linear Regulators

BCT2057
5V 1000mA Low Dropout Linear Regulators

BCT3421
5V 1000mA DC-DC Converters-Backlight Driver

BCT8002/BCT8002H
Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

BCT8005
Low-Cost, Mono 1.67W(RL=8Ω) Class D Audio Power Amplifier

BCT8933/BCT8933B
High Efficiency, Low Noise Class T Audio Amplifier

BCT8722
1MHz, 60uA, Rail to Rail I/O CMOS Operational Amplifier

BCT7915
Over-Voltage Protection Load Switch

Security Camera Solution



AC 220V to DC 5V Adapter



Charger 5/9/28/13V 0.5/1/3A

BCT2601S
BCT40561
BCT4054
BCT4056
BCT4066

Hi PSRR LDO 5V 300mA

BCT2021
BCT2160
BCT2910

2.8V

MIPI Switch

BCT647
BCT634
BCT642A
BCT644C
BCT646C

OR

DCDC 5V 1A/1.2A/2A

BCT1812
BCT1814
BCT1721/2
BCT12569A

3.3V
VDDI/O

DCDC 5V 1A/1.2A/2A

BCT1812
BCT1814
BCT1721/2
BCT12569A

0.9V
VCORE

DCDC 5V 1A/1.2A/2A

BCT1812
BCT1814
BCT1721/2
BCT12569A

1.2V
VDDR

SoC

DDR

Flash

Class AB/D Audio PA 5V 3W

BCT8203
BCT8890
BCT8013
BCT8933
BCT8002/5
BCT89317B

Speaker

Microphone

SIM Card Controller

BCT4567/A

LED Driver 5.5v 1A

BCT3756
BCT3692B

LED Driver 5V 1.2A

BCT3401
BCT3421

Infrared LED

LED Driver 5V 1.2A

BCT3401
BCT3421

White LED

LDO 5V 300mA/500mA/1A

BCT2021
BCT2038
BCT2057
BCT2186

3.3V

Motor Driver 5V 1000mA

BCT9151

M IR CUT

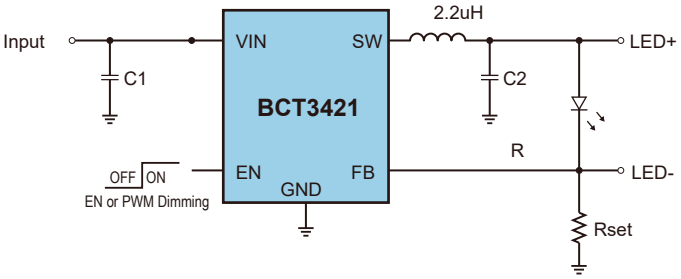
Motor Driver 5V 1000mA

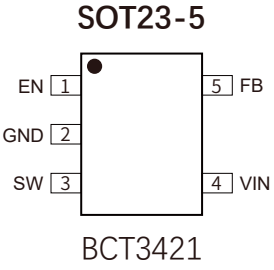
BCT9803

M

M

Pan & Tilt Motor





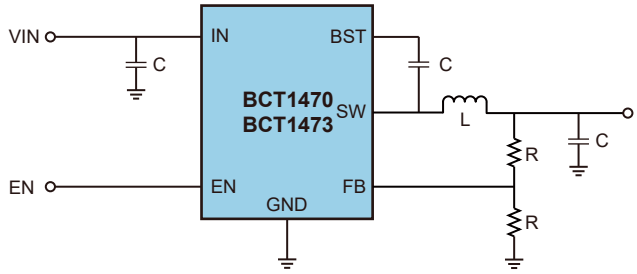


BCT3421 - 1A, High Efficiency -LED Driver

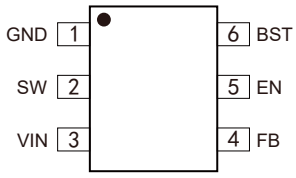
Features

- Up to 90% efficiency
- 1.35MHz Switching Frequency
- 0.1V FB Voltage
- True PWM Current Program
- Open LED Protection
- Short LED Protection
- Input UVLO and Over voltage 6.9 V Protection
- Thermal Protection
- Internal soft-start
- SOT23-5 Packages

DC-DC/Charger/ LED Driver



SOT23-6
FCSOT23-6



BCT1470/BCT1473

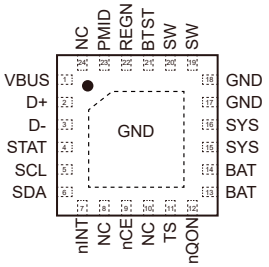


BCT1473 - 18V 3A Peak, 600kHz Synchronous, Step-Down Converter With ACOT Mode

Features

- Wide 4.7V to 18V Operating Input Range
- 90mΩ/50mΩ Internal NFET Efficiency: up to 94%
- ACOT Control with Fast Transient Response
- Pulse-Skip Mode
- Short-circuit Protection
- FCSOT23-5 Packages
- 600kHz Switching Frequency
- Cycle-by-Cycle Current Limit
- Internal Soft Start 1ms
- Startup from Pre-Biased Output Voltage
- Thermal Shutdown

QFN4x4-24L



BCT2601S

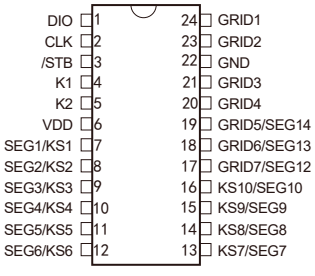


BCT2601S - 3A 1-Cell Buck Battery Charger

Features

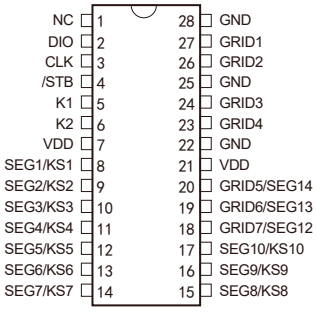
- 3.9V to 13.5V Operating Input Voltage Range
- Up to 24V Sustainable Voltage
- High Efficiency, 1.5MHz, Synchronous Buck Charger
- USB On-The-Go (OTG) Support (Boost Mode)
- 2.5μA Ship Mode Low Battery Leakage Current
- Auto Detect USB BC1.2, SDP, CDP, DCP and Non-Standard Adaptors
- High Battery Discharge Efficiency with 26mΩ Switch
- Ship Mode, Wake-Up and Full System Reset Capability by Battery FET Control

SOP24



BCT3668/RE

SOP28



BCT3628/RE



BCT3668/RE/3628/RE - 70 Channels LED Driver With Slope Lighting Mode

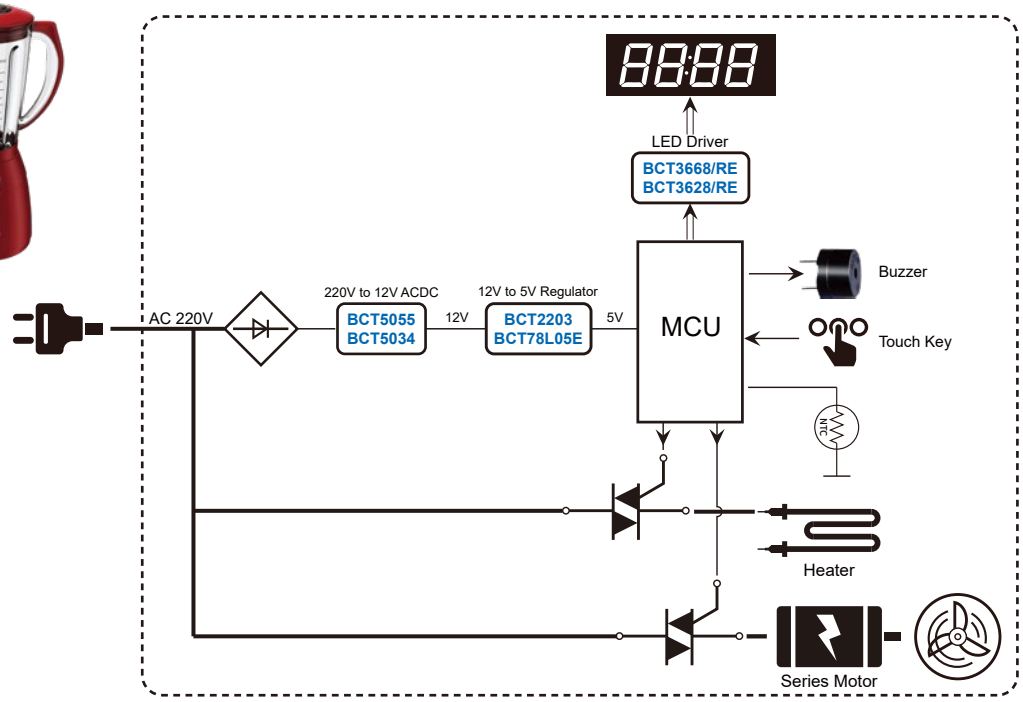
Features

- Wide operation Voltage: 3.0V to 5.5V
- Serial Interface
- 8-Step/256-Step Dimming Circuitry
- Built in OSC generator
- Pulse Segment Current: 50 mA type
- Key scanning: 10 × 2 matrix
- Operation Temperature: -40 to 85°C

Home Appliance Solution

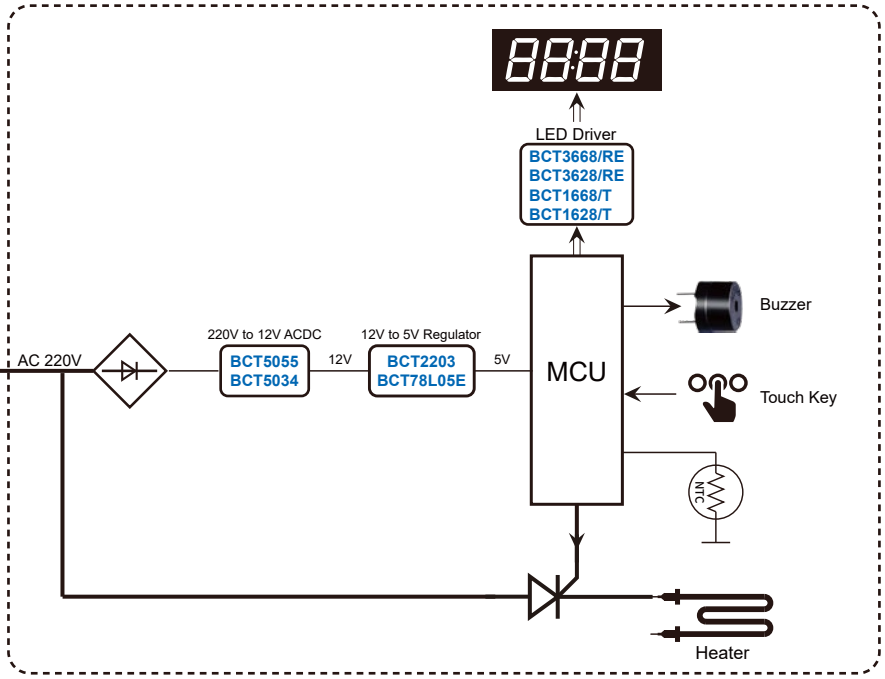
Blender Block Diagram





Electric cooker Block Diagram





BCT5034
AC 220V to DC 12V 200mA Non-isolation Converter

BCT78L05E
5V 150mA High Voltage Regulator

BCT2203
150mA High Voltage Regulator

BCT8002/BCT8002H
Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

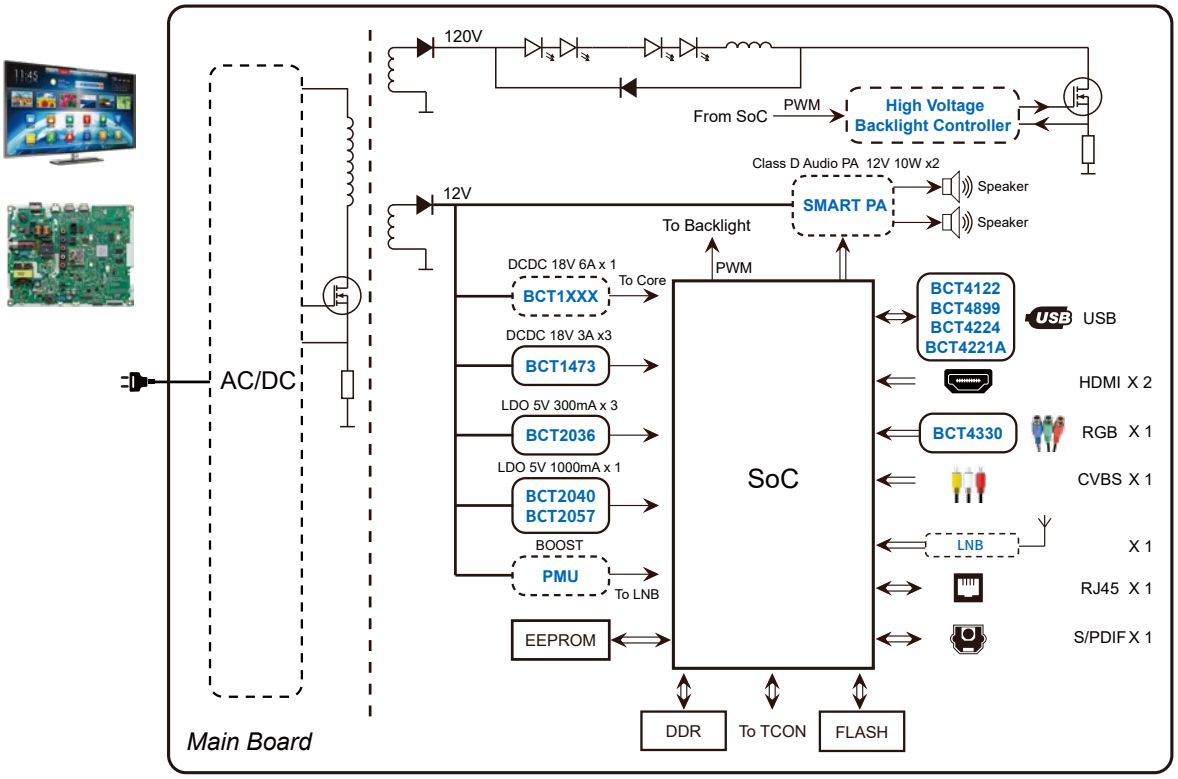
BCT3668/RE
70 Channels LED Driver With Slope Lighting Mode

BCT3628/RE
70 Channels LED Driver With Slope Lighting Mode

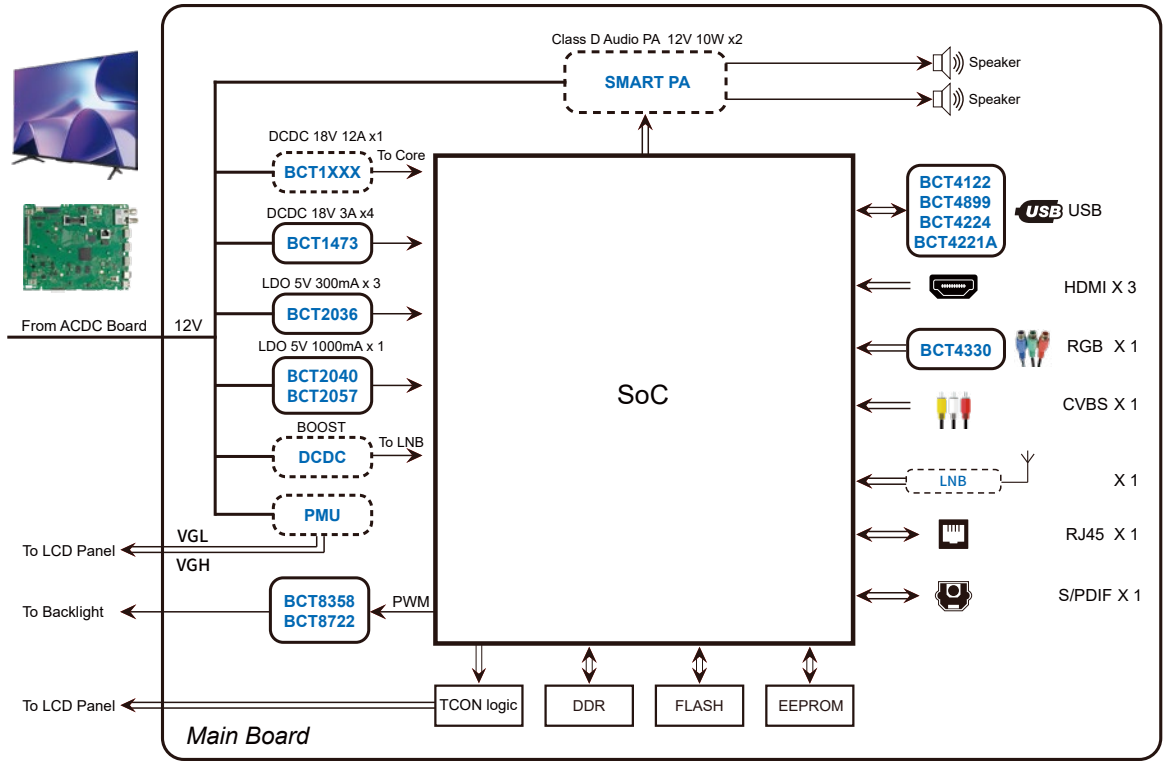
BCT3124
24-Channel 256 Steps Constant-Current LED Driver

BCT1668/T
70 Dots LED Driver +20 keys

43" Smart TV MainBoard（CPU+AC/DC+Backlight 3in1）Block Diagram



50" Smart TV MainBoard（CPU+TCON 2in1）Block Diagram



BCT1473
18V 3A 600KHz Synchronous Buck Converter

BCT2036
300mA Low IQ Low Dropout Regulators

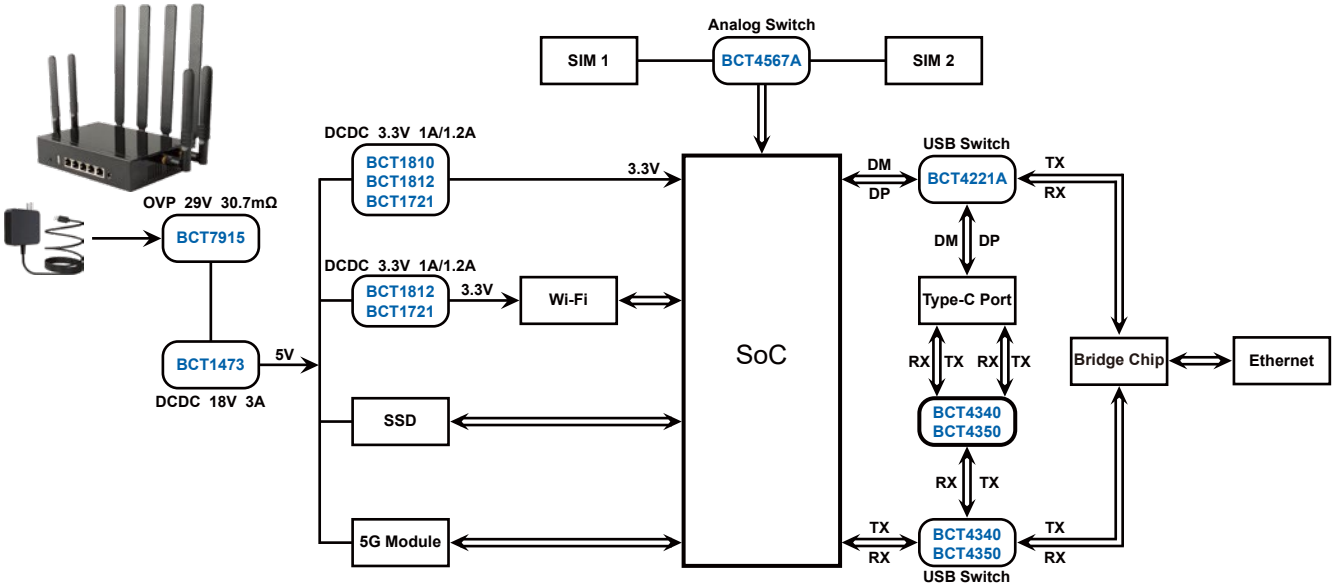
BCT8358
2 Channel RRIO 1MHz CMOS Amplifier

BCT2040
1000mA Low Dropout Regulators

Wearable Devices



CPE Block Diagram



BCT7915
Over-Voltage Protection Load Switch

BCT6553
Power Distribution Switch

BCT4054
0.7A Li-Ion Linear Charger Management

BCT2601
3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator

BCT1810/BCT1812
5V 1A Buck Converter

BCT8013
Low-Cost, Mono 2.8W Audio Power Amplifier

BCT3364
4 Channel 16 Steps LED Driver

BCT3124
24-Channel 256 steps Constant-Current LED Driver

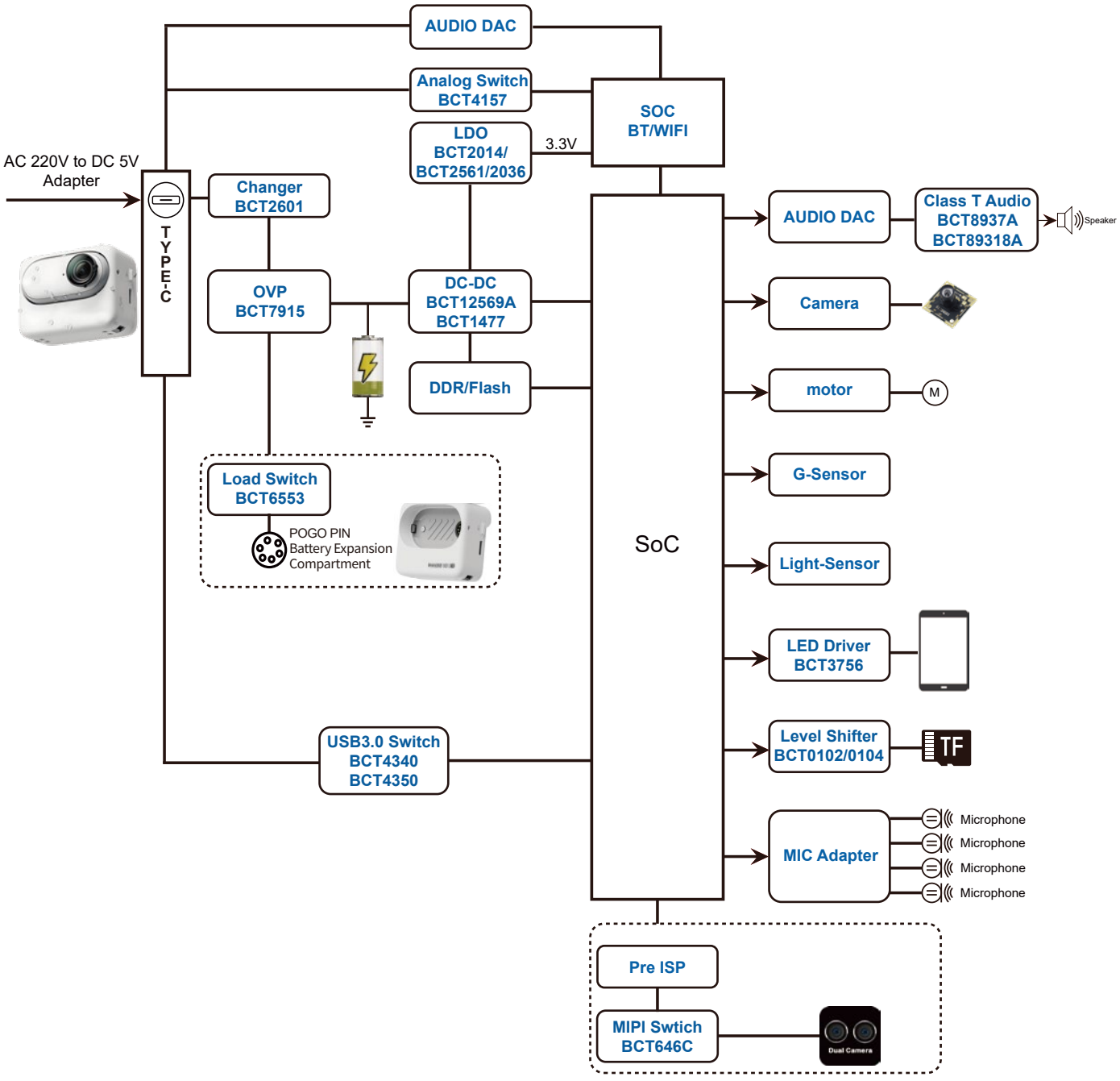
BCT3136
36-Channel 256 steps Constant-Current LED Driver

BCT2561
2uA IQ, Low Dropout Linear Regulators

BCT0102
2-Bit Bidirectional Level-Shifting

BCT0104
4-Bit Bidirectional Level-Shifting

Sports Camera



BCT4157

Low-Voltage, 300MHz Analog Switch

BCT2014

0.7uA IQ Low Dropout Regulators

BCT2036

300mA Low IQ Dropout Regulators

BCT2561

2uA IQ Low Dropout Regulators

BCT12569A

5V 2A Buck Converter

BCT4340/BCT4350

USB3.2 Super Speed 10 Gbps Swtich

BCT1477

18V 3A Buck Converter

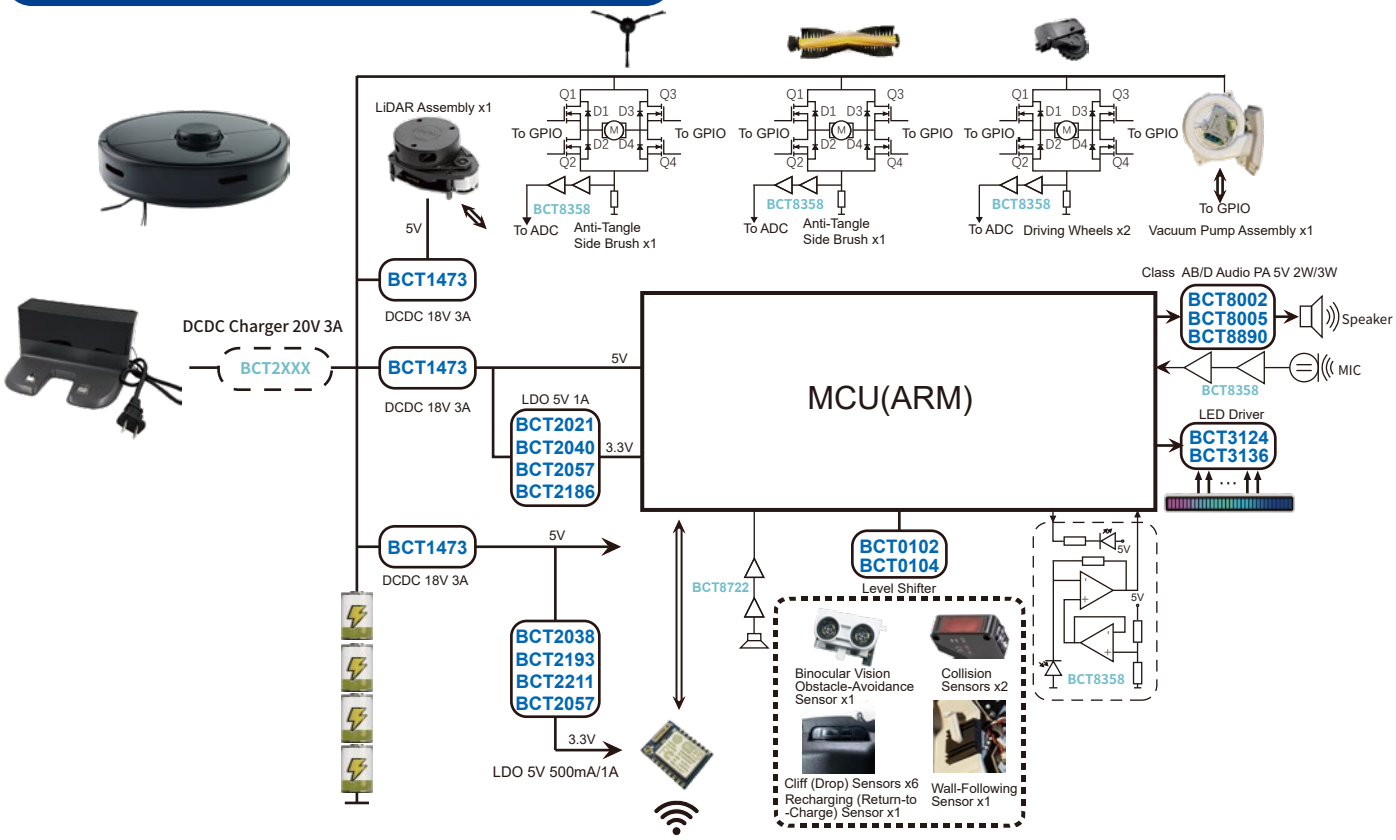
BCT646C

2:1 MIPI D-PHY, C-PHY (4.5Gbps) 4-Data Lane Switch (0.35Pitch)

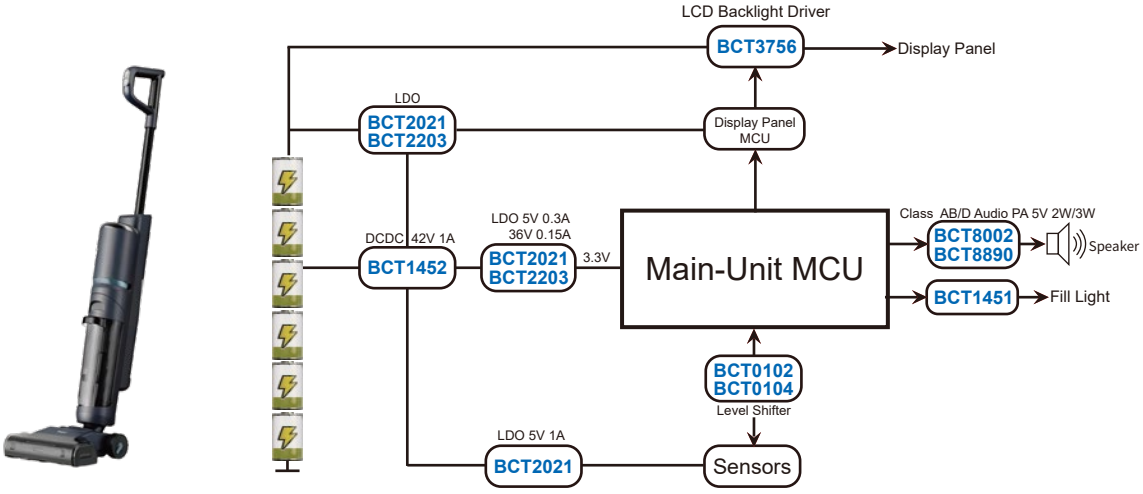
BCT89318A/BCT8937B

High efficiency, Low noise Class T Audio Amplifier

Sweeping Robot Block Diagram



Floor Washer Block Diagram



BCT8890
Low-Cost, Mono 2.2W Audio Power Amplifier

BCT1452
42V 1A Buck Converter

BCT3756
WLED Driver with PWM Brightness Control in Small Package

BCT3136
36ch 256x256 steps CC LED Driver

BCT2193
500mA Low IQ Low Dropout Regulators

BCT2211
500mA Low IQ Low Dropout Regulators

BCT2186
1000mA Ultra Low Dropout Regulators

CONTACT US
联系我们

Shanghai
上海总部
AD: 17th Floor, Block H, WESTLINK, No.2337 Gudai Road, Minhang District, Shanghai, China
上海市闵行区顾戴路2337号维璟中心H幢17层
P.C.: 201199
Tel: 021 - 64472383　64472385
MB: 13391139563

Shenzhen
深圳
AD: Room 1101, Floor 11, Dingxin Building East Block, No. 6008, Xili Liuxian Avenue, Nanshan District, Shenzhen, China
深圳市南山区西丽留仙大道6008号鼎新大厦东座11层1101室
P.C.: 518055
MB: 13386121579

Hangzhou
杭州
AD: Room 1801~1807, Floor 18, Huaye Building, No. 511, Jianye Road, Binjiang District, Hangzhou, China
杭州市滨江区建业路511号华业大厦18层1801-1807室
P.C.: 310052
MB: 13956026978

Hong Kong
香港
AD: 19H Maxground Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, Hong Kong, China
Tel: +852 - 25832396
Fax: +852 - 30119876

www.broadchip.com