

ESMT

Elite Semiconductor Microelectronics Technology Inc.

晶豪科技股份有限公司

ESMT

Audio/Power Product BU

音訊/電源產品事業單位

www.esmt.com.tw

選型指南 – 2021.Q4 Selection Guide



公司簡介 Company Profile

About ESMT

Elite Semiconductor Microelectronics Technology Inc. ('ESMT'), a Taiwan-based memory IC design company. Business activities consist of R&D, manufacturing, marketing, and the provision of design services for a variety of memories and mixed signal products. We have initially defined ourselves as a provider of various memory ICs. In contrast to main memory, i.e., DRAM used for PCs, servers, and workstations, our DRAM products focus on specialty DRAM memories, which are used in sectors such as PC peripherals, IA products, consumer products, optical devices, and communication devices. We have been positioning ourselves to market a full range density (from 1Mb to 256Mb) and a wide variety of specialty DRAM products (including FPM, EDO, SDRAM, DDR, Mobile SD/DDR and etc.). Furthermore, in 2002 we entered the flash memory business. A number of NOR flash products, ranging from 2Mb to 32Mb with parallel and/or serial interface, are now available for mass production. To serve the rising market demand of System-in-Package(SiP) and Multi-Chip-Package (MCP), ESMT has successfully established the Know-Good-Die(KGD) product line of above products.

關於晶豪科技

晶豪科技股份有限公司 (Elite Semiconductor Microelectronics Technology Inc., ESMT) 為一專業 IC 設計公司，主要業務包含 IC 產品之研究、開發、製造、銷售及相關技術服務。公司自創立時便以成為客戶各類型記憶體產品及技術之供應者為職志。有別於搭配於電腦系統應用之主記憶體，本公司研發之 DRAM 產品以特定型記憶體為主，可廣泛應用於 PC 週邊、資訊家電、光儲存設備及消費性、通訊等系統，目前已成功建立各種容量 (1Mb 至 256Mb) 的特定型 DRAM 產品線 (包括 FPM、EDO、SDRAM、DDR 等)，和低耗電之 Mobile DRAM；在快閃記憶體方面，目前以 NOR Flash 為主，已先後推出一系列不同容量和介面的 Flash 產品 (含 2Mb 至 32Mb, Parallel 及 Serial Flash)。另外，由於系統級封裝 (System in Package; SiP) 及多晶片模組封裝 (Multi-Chip Package; MCP) 之需求快速增加，晶豪科技也已經成功開發上述各項產品之「良品晶粒」產品 (Known-Good-Die; KGD)，以因應市場之發展。

About Audio/Power Product BU

Audio/Power Product BU of Elite Semiconductor Microelectronics Technology Inc. was formed by Class D product line and Elite Micropower Inc. on August, 2008 and locates at the Hsinchu Science-Based Industrial Park in Taiwan. Business activities consist of R&D, manufacturing, marketing and sales. ESMT's product lines include Power Management IC, Audio Power Amplifier, Battery Management IC, Lighting Management IC, and intelligent Power Management Unit. ESMT provide power management and audio amplifier total solution of consumer electronics, computer and peripherals and communication system.

關於音訊/電源產品事業單位

晶豪/音訊/電源產品事業單位由D類功放產品線與晶鎂電子的電源管理IC於2008年8月所組成，是以台灣為基地深耕於電源相關產品積體電路設計。音訊/電源產品事業單位位於新竹科學園區，業務活動涵括研發與設計、製造、行銷。產品線包含電源及音頻功率放大器積體電路、電池管理元件、照明管理元件及智慧型電源模組。晶豪科技音訊/電源產品事業單位可提供各類型消費型電子產品、電腦及其週邊、通訊產品系統之電源管理及音頻放大的解決方案。

品質認證 Quality Certification

提供卓越產品,滿足顧客對品質的要求。

To provide excellent products that meet the quality requirements of our customers

透過全員參與,實現公司對品質的承諾。

To fulfill the quality commitment through the involvement of all corporate members in all activities

ISO-9001 / ISO-14001 Certified



Current issue date: 1 July 2020
Supply date: 14 August 2021
Certificate identity number: 10277213

Original approval: ISO 9001 - 17 August 2008

Certificate of Approval

This is to certify that the Management System of:

**Elite Semiconductor
Microelectronics Technology Inc.
Elite Memory Technology Inc.**

No. 23, Industrial E. Road IV, Science-Based Industrial Park, Hsinchu 300, Taiwan

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 - 0065681

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design and Management of manufacture of integrated circuit.



Rhett Wang
Area Operations Manager, Greater China

Issued by: Lloyd's Register Inspection Limited Taiwan Branch
for and on behalf of: Lloyd's Register Quality Assurance Limited



Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract. Issued by: Lloyd's Register Inspection Limited Taiwan Branch, Room 1000, 10th Floor, No. 96, Section 2, Zhongshan North Road, Zhongshan Dist., Taipei City 10446, Taiwan for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7YS, United Kingdom

Page 1 of 2



Current issue date: 1 July 2020
Supply date: 18 February 2023
Certificate identity number: 10277212

Original approval: ISO 14001 - 18 March 2008

Certificate of Approval

This is to certify that the Management System of:

**Elite Semiconductor
Microelectronics Technology Inc.
Elite Memory Technology Inc.**

No. 23, Industrial E. Road IV, Science-Based Industrial Park, Hsinchu 300, Taiwan

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 - 0065680

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design and management of manufacture of integrated circuits



Rhett Wang
Area Operations Manager, Greater China

Issued by: Lloyd's Register Inspection Limited Taiwan Branch
for and on behalf of: Lloyd's Register Quality Assurance Limited



Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract. Issued by: Lloyd's Register Inspection Limited Taiwan Branch, Room 1000, 10th Floor, No. 96, Section 2, Zhongshan North Road, Zhongshan Dist., Taipei City 10446, Taiwan for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7YS, United Kingdom

Page 1 of 2

目標市場 Target Market



LCD-TV

LCD
Monitor



PC
Cam



Smart
Phone



CAR AVN



Car Charger



Traffic recorder



CAR rearview mirror



Sound Bar



BT Speaker



Tablet
PC



Notebook



STB



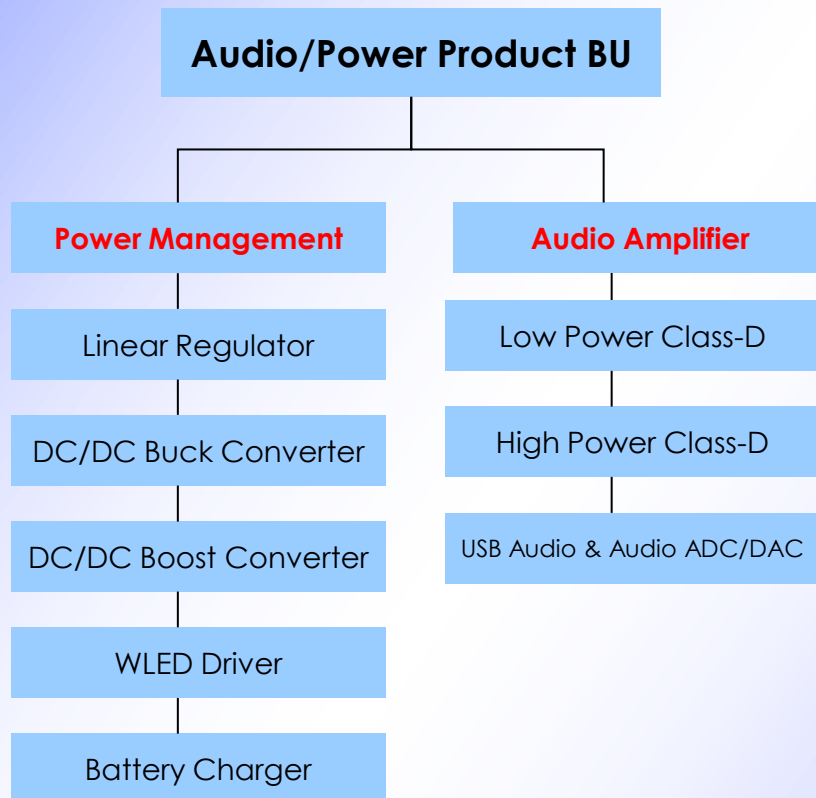
AI Speaker



SSD

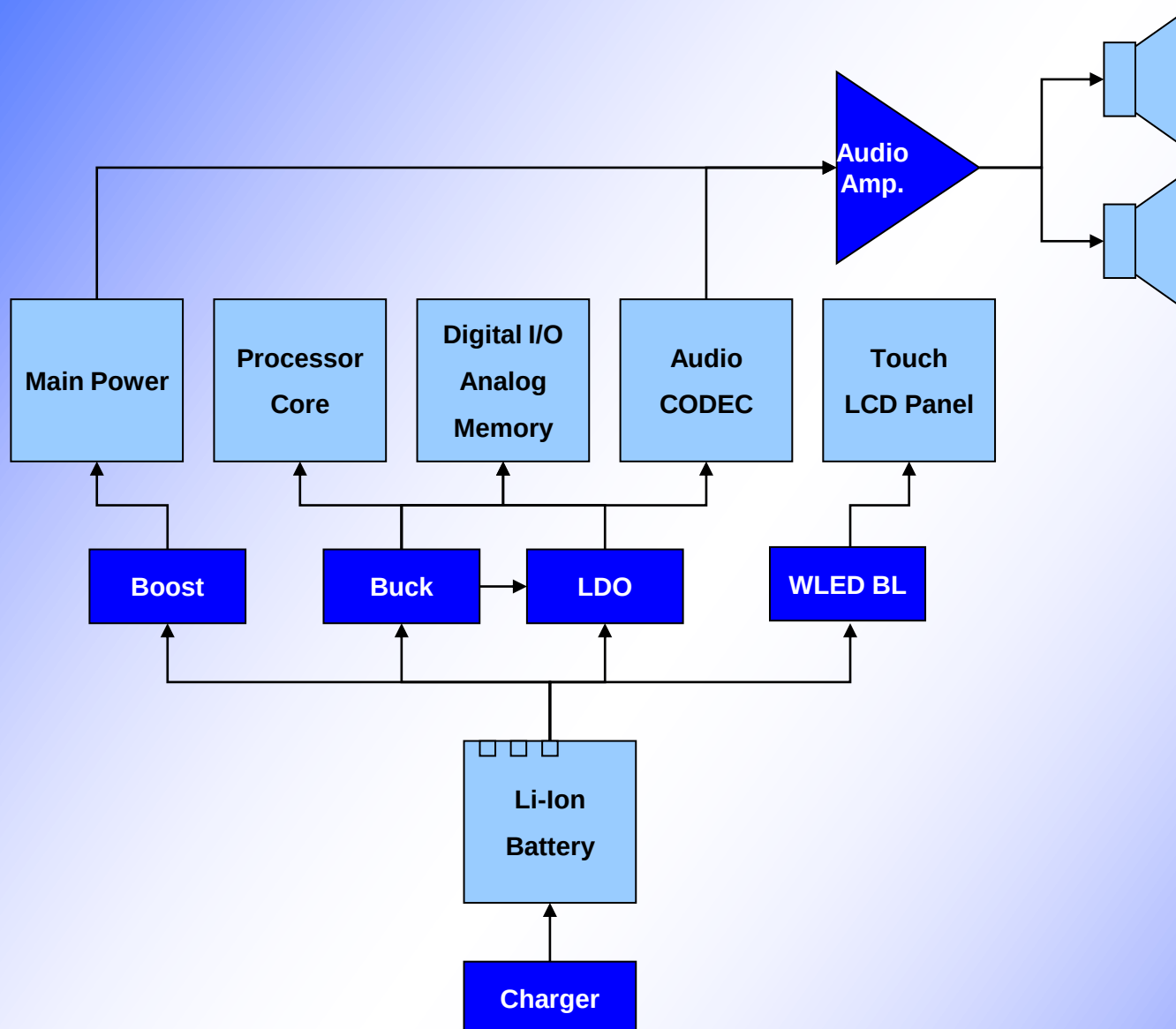


Speaker



All Products are Lead-Free, RoHS / Green Compliant

Handheld Devices Solution 手持式產品解決方案



Charger EMC575X/EMC504X

Boost EMH7070/ EMH7090

Buck EML338X/EML332X

LDO EMP8021/EMP8130/EMP8965/
EMP8042B/EMP8110/EMP8150

WLED BL EMD2050/EMD2055
EMD2095/EMD3001

**Audio
Amp.**

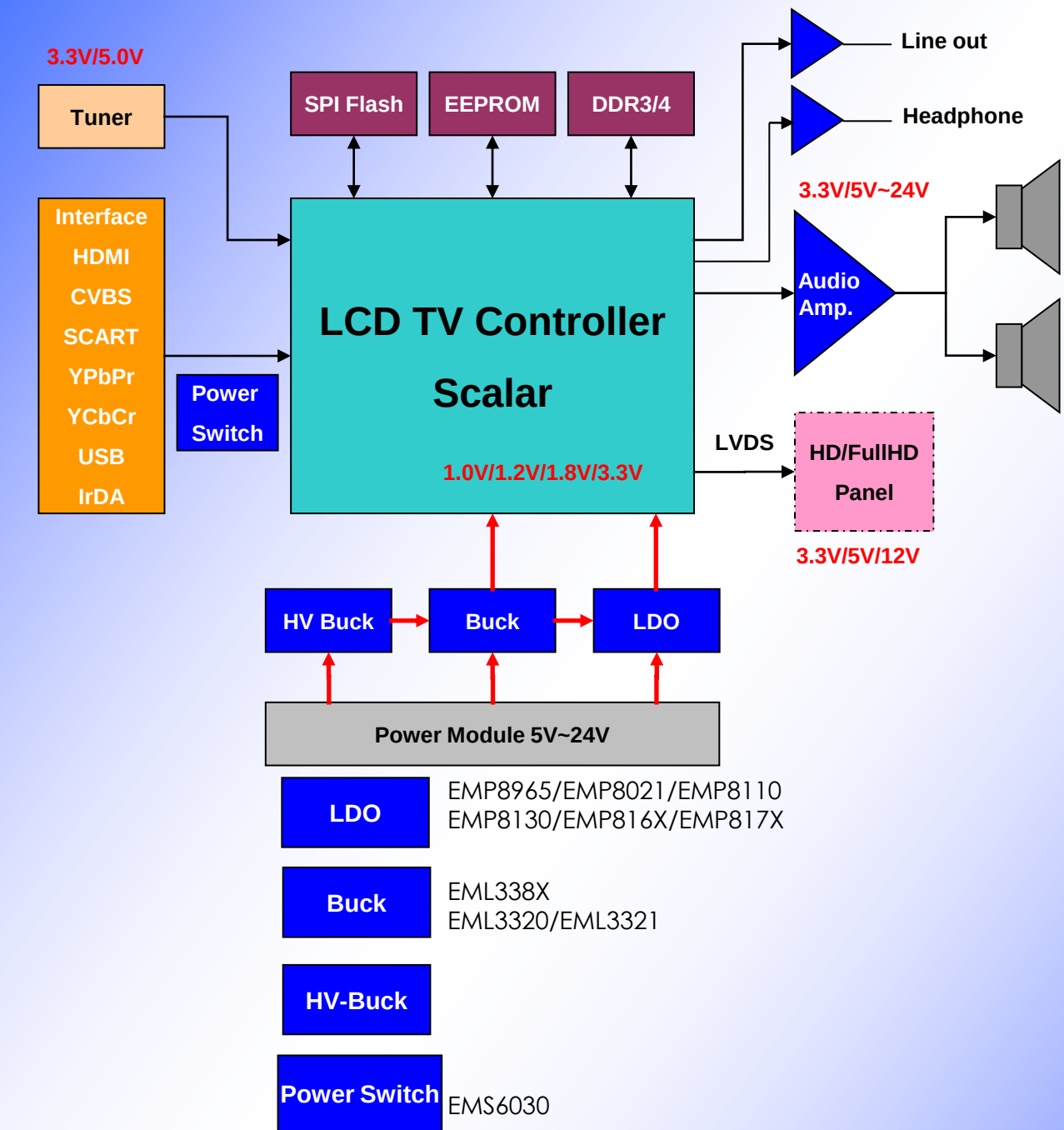
Mono:

AD51652/AD51653

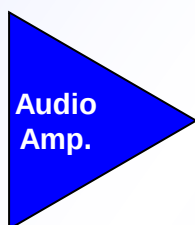
Stereo:

AD52651C/AD52656/AD52010/AD52080

LCD-TV Solution 液晶電視解決方案



5W~40W



Analog Input Amp:

AD52050B/AD52060/AD52070/AD52090

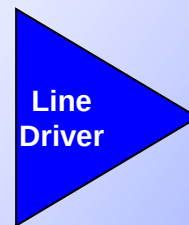
Digital Input Amp:

Non-EQ: AD82587D/AD82010/ AD82111

EQ: AD82088/AD82120/AD83586B

Digital input Amp + Line Driver:

AD87010/AD87088/AD87120

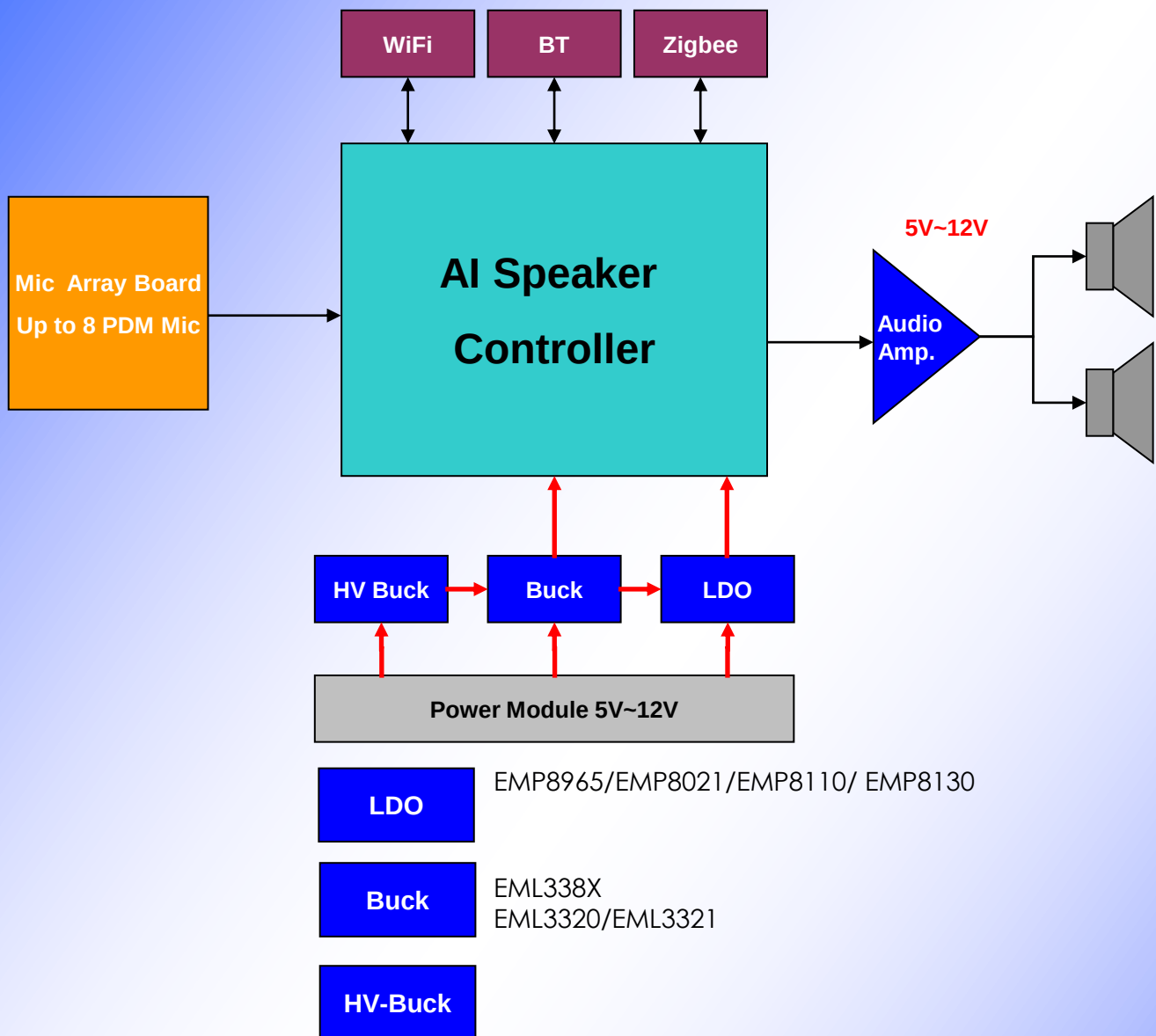


Line driver:

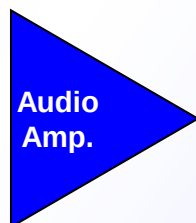
AD22650/AD22653B

AD22654/AD22657B

AI Speaker Solution 智能音箱解決方案



3W~10W



Analog Input Amp:

AD51652/AD51050B/AD52058

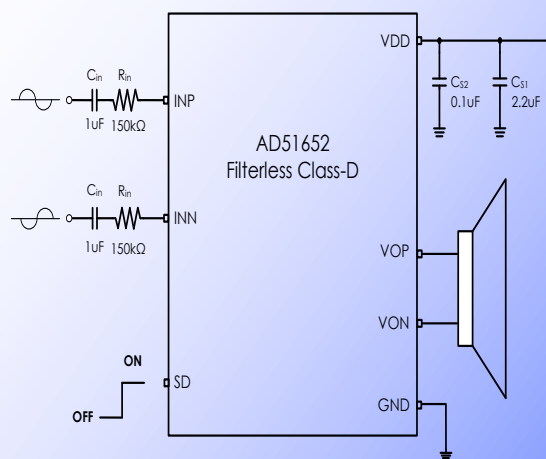
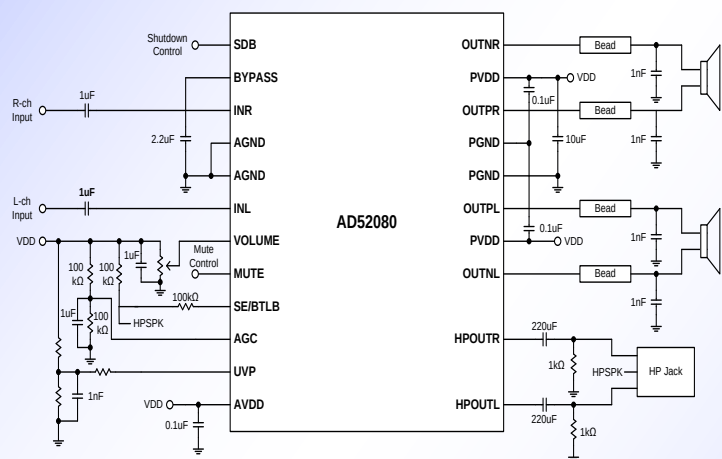
Digital Input Amp:

Non-EQ: AD82010/AD82111

EQ: AD82584F/AD82128/AD82129

D類低功率音頻放大器 Analog-input/Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD51652-MH08NRR AD51652-FH08NRR AD51652-WL09NRR	1	5.5	5	8/4/2	MSOP-8L TDFN-3x3-8 WCSP-9	Fully Diff.	MP
AD51653-QG14NRR AD51653-HH20NRR	1	5.5	4.2	8/4	E-TSSOP-14L TQFN-3x3-20	Class K ,NCN Charge pump	MP
AD52010-QG14NRR	2	5.5	3	8/4	E-TSSOP-14L	Fully Diff.	MP
AD52080-HI20NRR	2	5.5	3	8/4	TQFN-20L	DC Vol. Ctrl. AGC Earphone P2P Solution	MP
AD52651C-ST24NAT	2	5.5	3	8/4	SSOP-24L (150mil)	Vol. Ctrl. New VDC ratio	MP
AD52652-ST24NAT	2	5.5	3	8/4	SSOP-24L (150mil)	Vol. Ctrl. Earphone	MP
AD52655-ST24NAT	2	5.5	2.5	8/4	SSOP-24L (150mil)	Vol. Ctrl. Power Limit	MP
AD52656-ST24NAR	2	5.5	2.5	8/4	SSOP-24L (150mil)	Vol. Ctrl. Power Limit Headphone	MP
AD82550A-CG	2	5.5	2.9	8/4	SSOP-24L (209mil)	I ² S In Vol. Ctrl. Headphone	MP



D類高功率音頻放大器 Analog-input/PWM-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD51050B-26QH14NRR AD51050B-26HH20NRR	1	4.5~14.4	8	8/4	TSSOP-14L TQFN-20L	Analog In 26dB gain Filter-Free	MP
AD52050B-26QG28NRR	2	8~14.4	15	8/4	E-TSSOP-28L	Analog In 26dB gain Power Limit P2P solution	MP
AD52058-26QG28NRR	2	4.5~14.4	15	8/4	E-TSSOP-28L	Analog In 26dB gain Power Limit P2P solution	MP
AD52060-QG28NRR	2	8~26	20	8/4	E-TSSOP-28L	Analog In Four gain Power Limit Filter-Free Mute/SD P2P solution	MP
AD52067-26QG28NRR	2	2.9~12	15	8/4	E-TSSOP-28L	Analog In 26dB gain Filter-Free Booster	MP
AD52068-QG28NRR	2	4.5~26	20	8/4	E-TSSOP-28L	Analog In Four gain Power Limit Filter-Free Mute/SD P2P solution	MP
AD52070-QG28NRR	2	4.5~26	30	8/4/2	E-TSSOP-28L	Analog In Four gain Power Limit AGC AM Avoidance	MP
AD52090-QG28NRR	2	4.5~26	30	8/4/2	E-TSSOP-28L	Analog In Four gain Power Limit P2P solution	MP
AD52117-QG28NRR	2	4.5~26	20	8/4	E-TSSOP-28L	Analog In Four gain Power Limit Filter-Free Mute/SD P2P solution	MP
AD53060-LG48NRY	4	4.5~20	2x25W 15Wx2+30W 15Wx4	8/4	E-LQFP-48L	Analog In 26dB gain Power Limit	MP
AD92580C-QG24NAT	2	5~26	20	8	E-TSSOP-24L	PWM input	MP

D類高功率音頻放大器 with EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD82088-QG24NRR AD82088-LG48NRY AD82088-01LG48NRR	2	8~26	20	8/4	E-LQFP-48L E-TSSOP-24L	I ² S In/I ² C; Vol./Mute 30 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less P2P solution	MP
AD82120-QG28NRR	2	8~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C; Vol./Mute 3.3V I/O 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop P2P solution	MP
AD82128-QG28NRR AD82128-01QG28NRR	2	4.5~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C; Vol./Mute 3.3V/1.8V I/O 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop P2P solution	MP
AD82129-QG28NRR	2	4.5~26	25	8/4	E-TSSOP-28L	I ² S In/I ² C; Vol./Mute 3.3V/1.8V I/O ; MCLK Out 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop	MP
AD82584F-QG24NRR AD82584F-LG48NRY	2	4.5~26	25	8/4	E-TSSOP-24L E-LQFP-48L	I ² S In/I ² C; Vol./Mute 30 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D MCLK-Less P2P solution	MP

D類高功率音頻放大器 with EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD85050-LG48NRR	2	4.5~26	30	8/4/2	E-LQFP-48L	I ² S In/I ² C; Vol./Mute 36 Bands EQ Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less Virtual Bass/exciter Closed Loop	MP
AD83586B-LG48NAY	2 2.1	7~26	40x2 /20x2 +40	8/4	E-LQFP-48L	I ² S In/I ² C; Vol./Mute 20 Bands EQ Dual Band DRC Noise Gate Channel Mixing	MP

D類高功率音頻放大器 Non-EQ Digital-input Class D

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD82010-QG24NRR	2	4.5~26	20	8/4	E-TSSOP-24L	I ² S In/I ² C; Vol./Mute Power Clipping DRC/Noise Gate MCLK-Less/Filter-Less Closed-Loop	MP
AD82111-QG24NRR AD82111-QG28NRR	2	4.5~26	25	8/4	E-TSSOP-24L E-TSSOP-28L	I ² S In/I ² C; Vol./Mute 3.3V/1.8V I/O ; MCLK Out 32 bits audio data path Power Clipping/DTC DRC/Noise Gate/TDM Spread Spectrum I ² S Out/MCLK-Less/Filter-Less Closed-Loop	MP
AD82583-QG24NRR	2	5~26	20	8/4	E-TSSOP-24L	I ² S In; power limit Closed loop	MP
AD82587D-QG24NRR	2	10~26	20	8/4	E-LQFP-48L E-TSSOP-24L	I ² S In/I ² C; Vol./Mute DRC/DTC Power Clipping Noise Gate	MP

D類高功率音頻放大器 Digital-input Class D + Line Driver

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD87010-LG48NRY	2	8~26	20	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute Power Clipping DRC Noise Gate MCLK-Les/Filter-Less Closed-Loop Line Driver	MP
AD87088-01LG48NRY	2	8~26	20	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute 30 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D I ² S Out/MCLK-Less Line Driver	MP
AD87120-LG48NRY	2	8~26	25	8/4	E-LQFP-48L	I ² S In/I ² C;Vol./Mute 1.8V/3.3V I/O 32 Bands EQ Power Clipping Three Band DRC With post DRC Noise Gate/3D/TDM Spread Spectrum I ² S Out/MCLK-Less Closed-Loop Line Driver	MP

音頻類比數位轉換器 USB Audio, Line Driver & ADC/DAC

Product ID	Ch	VDD (V)	Power (W)	Load (ohm)	Package	Features	Status
AD12250A-SG AD12250A-SG/TR	2	3.3	NA	NA	TSSOP-16	24 bits I ² S out A/D Converter	MP
ADD2010-QG28NRR	2	3.3	NA	NA	TSSOP-28	I ² S In/I ² C; Vol./Mute 36 Bands EQ Three Band DRC Virtual Bass/exciter 2 Vrms Output D/A Converter	MP
AD22650-QH14NAR	2	5/3.3	NA	NA	TSSOP-14	3 Vrms Line Driver Popless	MP
AD22653B-QH14NAR	2	3.3	NA	NA	TSSOP-14	2 Vrms Line Driver Popless	MP
AD22654-MH10NAR	2	5/3.3	NA	NA	MSOP-10	3 Vrms Line Driver Popless	MP
AD22657B-MH10NAR	2	3.3	NA	NA	MSOP-10	2 Vrms Line Driver Popless	MP
AD62556-LG48NAY	2	5.5	NA	NA	E-LQFP-48L	USB interface Microphone/Line in I ² S in/out Earphone Win7 Logo Recording	MP
AD62557-LG48NAY	2	5.5	2.1	4	E-LQFP-48L	USB interface Microphone/Line In I ² S in/out Class D Amp. Win7 Logo Recording	MP

單通道低壓差線性穩壓器 1-Ch LDO

Product ID	I _{out} (A)	V _{in} (V)	V _{out} (V)	V _{do} (mV)	Feature	Package	Status
EMP8040B-00VF05NRR	0.15	3.0~36	Adj(1.2V)	450	HV, Low I _q	SOT-23-5	MP
EMP8041B-xxVF05NRR	0.15	3.0~36	3.0/3.3/5.0	450	HV, Low I _q	SOT-23-5	MP
EMP8042B-xxVF05NRR EMP8042B-xxVG03NRR EMP8042B-xxVN03NRR	0.15	3.0~20	Adj(1.2V)3.0/3.3/5.0	450	HV, Low I _q	SOT-23-5 SOT-89-3 SOT-23-3	MP
EMP8150-xxFJ04NRR EMP8150-xxVN05NRR EMP8150-xxVN03NRR	0.25	1.8~5.5	0.8/1.2/1.25/1.5/1.8/1.9/2.8/3.0/3.1 3.3	220	High PSRR Low I _q	uDFN-1x1-4 SOT-23-5 SOT-23-3	MP
EMP8130-xxVN05NRR EMP8130-xxFJ04NRR	0.3	1.7~5.5	0.8/1.0/1.2/1.3/1.5/1.8/2.5/2.8/3.0/ 3.3	260	High PSRR	SOT-23-5 uDFN-1x1-4	MP
EMP8130-xxVN03NRR EMP8130-xxFK06NRR	0.3	1.7~5.5	1.2/1.5/1.8/2.8/3.0/3.3/4.2	260	High PSRR	SOT-23-3 DFN2X2-6	MP
EMP8021-xxVF05NRR	0.6	2.2~5.5	1.8/2.5/2.8/3.0/3.3	610	High PSRR	SOT-23-5	MP
EMP8021-xxVG03NRR	0.6	2.2~5.5	1.8/2.5/2.8/3.3	610	High PSRR	SOT-89-3	MP
EMP8021-xxFK06NRR	0.6	2.2~5.5	1.8/3.0	610	High PSRR	TDFN-6	MP
EMP8965-xxVF05GRR EMP8965-xxFK06NRR	0.6	2.5~5.5	1.2/1.5/1.8/2.5/3.0/3.3	270	High PSRR Low Dropout	SOT-23-5 TDFN-6	MP
EMP8966-xxVF05NRR EMP8966-xxVC06NRR	0.6	2.5~5.5	Adj	270	High PSRR Low Dropout	SOT-23-5 SOT-23-6	MP
EMP8161/A-00SG08NRR	1	1~5.5	Adj	90	High Current Low Dropout	E-SOP-8L	MP
EMP8166/A-xxSG08NRR EMP8166/A-xxVN06NRR	1	1~5.5	Adj	90	High Current Low Dropout	E-SOP-8L SOT-23-6	MP
EMP8110-xxVEJ3NRR EMP8110-xxVEG3NRR EMP8110-xxSG08NRR	1.5	2.5~6.5	1.2/1.5/1.8/2.5/3.3	300	High Current Low Dropout	SOT-223 E-SOP8	MP
EMP8160/A-00SG08NRR EMP8160A-12SG08NRR	2	1~5.5	Adj/1.2	185	High Current Low Dropout	E-SOP-8L	MP
EMP8165/A-00SG08NRR	2	1~5.5	Adj	185	High Current Low Dropout	E-SOP-8L	MP
EMP8170/A-00SG08NRR	3	1~5.5	Adj	280	High Current Low Dropout	E-SOP-8L	MP
EMP8175/A-00SG08NRR	3	1~5.5	Adj	280	High Current Low Dropout	E-SOP-8L	MP

降壓式開關穩壓器 DC/DC Buck Converter

Product ID	I _{out} (A)	V _{in} (V)	V _{out} (V)	V _{fb} (V)	Freq. (MHz)	Control	Package	Status
EML3380-xxFK06NRR EML3380-00VN05NRR	1.0	2.6~5.5	Adj/1.2/3.3	0.6	1.5	Sync./PSM/PWM	TDFN-6 SOT-23-5	MP
EML3383-00VN05NRR	1.0	2.6~5.5	Adj	0.6	1.5	Sync./PSM/PWM	SOT-23-5	MP
EML3320-00VN05NRR EML3320-00VN06NRR	2.0	2.6~5.5	Adj	0.6	1	Sync./PSM/PWM	SOT-23-5 SOT-23-6	MP
EML3321-00VN06NRR EML3321-00FK08NRR	3.0	2.6~5.5	Adj	0.6	1	Sync./PSM/PWM	SOT-23-6 TDFN-8	MP
EML3322-xxFH10NRR	2.0/2.0	2.6~5.5	Adj	0.6	1	Sync./PSM/PWM	TDFN-10	MP
EML3193B-00SG08NRR EML3193B-00FH10NRR	3	4.5~36	Adj	0.808	Adj	Async./PSM/PWM External Freq. Adj OVP	E-SOP-8L TDFN-10L	MP
EML3290-00SG08NRR	3	4.5~40	Adj	0.805	Adj	Sync./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3420-00SG08NRR	6	4.5~40	Adj	0.8	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3421-00SG08NRR	6	4.5~40	Adj	0.8	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP
EML3350-00SG08NRR	1.5	4.5~60	Adj	0.808	Adj	Async./PWM External Freq. Adj OVP	E-SOP-8L	MP

升壓式開關穩壓器 DC/DC Boost Converter

Product ID	Current limit (A)	V _{in} (V)	V _{out} (V)	Freq. (kHz)	Control	Package	Feature	Status
EMH7070-00VN06NRR	2.5	2.6~5.5	Adj(0.6V) V _{out} (12V)	1000	Async./PWM	SOT-23-6	OVP, OCP,OTP	MP
EMH7090-00SG08NRR	6.0	2.9~12	Adj(0.6V) V _{out} (14V)	500	Async./PWM	E-SOP-8L	OVP, OCP,OTP	MP

電池充電IC Battery Charger

Product ID	Cell	Iout (A)	Operation Vin (V)	Vbat (V)	Vout (V)	Accuracy	Package	Features	Status
EMC5754-00VF05GRR EMC5754-00SG08NRR	1	1.0	4.25~5.5	4.2	---	±1%	SOT-23-5 SOP-8-E	Linear	MP
EMC5755-00FF06NRR	1	1.2	4.25~5.5	4.2	---	±1%	TDFN- 3x3-6	Linear	MP
EMC5040-42FF10NRR EMC5040-42SG08NRR	1	1.2	4.5~6.5 (MaxRating- 13.5V)	4.2	---	±1%	TDFN-3x3-10 E-SOP-8L	Linear TS	MP
EMC5042-84FF10NRR	2	1.2	9.0~13.5 (MaxRating- 15V)	8.4	---	±1%	TDFN-3x3-10	Linear TS	MP

DC/DC LED Driver

Product ID	Topology	Vin (V)	Ch.	Dimm	OVP (V)	Max. Iout/Ch (mA)	Package	Features	Status
EMD2050-00VC06NRR	Boost	2.5~5.5	1	PWM	15	*1	SOT-23-6	3S13P	MP
EMD2055-00VC06NRR EMD2055-00FK08NRR	Boost	2.5~5.5	1	PWM	36	*1	SOT-23-6 TDFN-2x2-8	10S3P	MP
EMD2095-00VC06NRR	Boost	2.5~5.5	1	PWM	31	*1	SOT-23-6	8S3P	MP
EMD3001-50FE06GRR EMD3001-50VC06GRR	Charge Pump	2.7~4.5	1	PWM	---	100	TDFN-2x2-6 SOT-23-6		MP
EMD2240-00VN05NRR EMD2240-00SG08NRR	Step-Down	6~60	1	PWM		1000	SOT-23-5 E-SOP-8L		MP

Car Peripheral Power Solutions

Car Power

HV Buck Converter
EML3420
EML3350
HV LDO
EMP8040B/1/2/5

1 Cell LI-ION

Linear Charger
EMC5754/5,
EMC5040

倒車雷達



1/2Cell Alkaline

Boost Converter
EMD3001 For 5V
Application



主要系統架構圖



System Power

For RF: GPS/BT/GPRS.....LDO→ **EMP8130 ,EMP8965**
For Core/MCU/DSP.. **LV DCDC Buck** → **EML3380/3383/3320/3321/3322**
For Panel backlight.....LED Drivers→ **EMD2050/55/95**
For Audio amp..... **Boost**→ **EMH7090, EMH7070**

聯絡資訊 Contact Information

Dept.	中文	Name	Ext.	Cell Phone
Assistant VP	蔡孟宏	Lyle	7110	+886-988-013-195 +86-137-1352-0704
Sales Assistant	王乃逸	Grace	7112	
Sales Assistant	林琄怡	Eileen	7111	
Sales Manager	蕭慧雯	Natasha	7113	+886-918-251-910
Account Sales-Taiwan	陳靜儀	Kiki	7118	+886-955-982-703
Account Sales-Overseas	鄧恩來	John	7115	+886-978-232-283
Account Sales-China	錢喜加	Elvis	SZ-205	+86-150-1672-3128
Account Sales-China	黃筱芸	Doris	SZ-201	+86-135-3800-5840
TME Deputy Director	林孟良	Dect	7190	+886-939-152-178
FAE Manager	郭正豐	Ken	7192	+886-952-004-279
FAE -Taiwan	陳和平	Kim	7191	+886-988-330-582
FAE Manager	王竣壕	Henry	SZ-301	+86-13043420308
FAE-Shenzhen	樊聘	Nick	SZ-303	+86-132-6554-9918
FAE-Shenzhen	張志明	Dick	SZ-208	+86-199-2548-0896
FAE-Shenzhen	唐華傑	Jason	SZ-302	+86-13418956808

ESMT Headquarters: (晶豪科技總部)

新竹科學園區工業東四路23號

No.23, Industry E Rd. IV, Science-Based Industrial Park, Hsinchu 300, Taiwan, R.O.C

Audio/Power Product BU: (音訊/電源產品事業處)

新竹科學園區工業東四路19號之1, 6F

6F No.19-1, Industry E Rd. IV Science-Based Industrial Park, Hsinchu 300, Taiwan, R.O.C.

Tel: +886-3-578-1970 ext.7111 Fax: +886-3-668-7157 sales2@esmt.com.tw

Shenzhen Office: (深圳辦公室)

深圳市福田区天安数码城創新科技廣場 1 期A座1704

A1704, Tower A, Tianan High-Tech Plaza, Futian District, Shenzhen, China

Tel: +86-755-8349-4369 Fax: +86-755-8349-4352

Shanghai Office : (上海辦公室)

上海市浦东新金桥路18号1811室, 201206

Room1811, No.18, New Jinqiao Road, Pudong, Shanghai, 201206, China

Tel: +86-21-38726730 Fax: +86-21-38726731